APPENDIX B

PUBLIC CONSULTATION

APPENDIX B-2: NOTICES OF PUBLIC CONSULTATION CENTRES (PCC #1 & PCC #2)

NOTICE OF PCC

STAKEHOLDER MAIL-OUT CONTACT LIST

PCC BOARDS

SIGN-IN SHEETS, COMMENT SHEET, HAND-OUT

PUBLIC NOTICE
NOTICE OF PUBLIC MEETING
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

The Study

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from the City of Kitchener located Bridgeport and Falconridge Sewage Pumping Stations (SPS), Stockyards Industrial/Commercial Area and King 86 Power Centre Area located in the Township of Woolwich, and Waterloo Region Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system. Within the City there are areas not presently connected to the municipal wastewater collection system which are serviced by septic systems or privately owned infrastructure. The City's current City-wide Sanitary Sewer System Update Master Plan, completed in 2002, identified priority (2002 to 2006) and strategic (2007-2016) projects to operate the sanitary system and accommodate growth up to the 2016 planning horizon.

The City is initiating the 2013 City-wide Sanitary Servicing Master Plan to account for updated population and employment growth projections up to a 2031 planning horizon. Priority and strategic projects will be evaluated to efficiently and effectively continue to operate the system, implement best management practices (including Infiltration/Inflow (I/I) monitoring and mitigation approaches), and optimize staging of the sanitary capital program. Potential alternatives may include upgrading existing sanitary infrastructure, installing new sanitary infrastructure (including the potential addition of infrastructure to accommodate sanitary flows from the St. Jacobs Wastewater Treatment Facility) and consideration of the transfer of private services (such as septic systems) to municipal servicing.

The Process

This study will be conducted in accordance with the Municipal Engineers Association document entitled "Municipal Class Environmental Assessment" October 2000, as amended in 2007 & 2011. An integral component of this study will be public consultation with various interested stakeholders.

Public Consultation Centre #1 (PCC #1)

PCC #1 will take place Wednesday November 27, 2013 from 5:00 to 7:00 pm at Waterloo Memorial Recreation Complex Bauer Room, #202. This Public Meeting will provide an overview of the City's sanitary works, educate attendees on the Master Plan process and review the Problem/Opportunity Statement.

A mailing list for notification purposes has been prepared for this study. If you are interested in being placed on the mailing list to receive future information, please register at www.waterloo.ca/sanitarymasterplan. To request additional information concerning this project, please contact either of the representatives below.

Mr. Leigh McDermott, P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario, N2H 6M7
Phone: (519) 585-7121
Fax: (519) 579-8806
Email: leigh.mcdermott@stantec.com

Mr. Brent Lauber, C.E.T., PMP
Project Manager, Engineering Services
City of Waterloo
265 Lexington Court, PO Box 337 Stn Waterloo
Waterloo, Ontario, N2J 4A8
Phone: (519) 886-2310 x 303
Fax: (519) 886-5788
Email: brent.lauber@waterloo.ca

All comments and information received from individuals, stakeholder groups, and agencies regarding this study are being collected to assist the City in making a decision. Under the Municipal Act, personal information such as name, address, telephone number, and property location may be included in a submission and becomes part of the public record. Questions regarding the collection of this information should be referred to the contact people above.

1611-11191 - Waterloo Sanitary Servicing Master Plan Update
Stakeholders Mailing List
Prepared by: Nicole Sapeta

Group	Company	Title	First Name	Last Name	Job Title	Address 1	Address 2	City	Province	Postal	Phone	Field13	Field14
First Nations	Aboriginal Affairs				Environmental Assessment Coordination	25 St. Clair Avenue East	8th Floor	Toronto	ON	M4T 1M2			N@aandc-aadnc.gc.ca
Utilities	Bell Canada	Ms.	Gayle	Widmeyer	Manager	Access Network Department	575 Riverbend Drive, Floor 2	Kitchener	ON	N2K 3S3			
Special Interest Groups	Canadian Heritage Rivers System	Mr.	Don	Gibson	National Manager	25 Eddy Street	4th Floor	Hull	Quebec	K1A 0M5	819-994-2913		
Utilities	Canadian Pacific Railway	Mr.	Francois	Beauclair	Director of Facilities, East	P.O. Box 6042	Station C.V.	Montreal	Quebec	H3C 3E4	514-395-5429		
Municipalities	City of Kitchener	Mr.	Eric	Riek	Project Manager	City of Kitchener	P.O. 1118	Kitchener	ON	N2G 4G7			
Utilities	CN	Mr.	Randy	Crosby	Track Supervisor	15 Wadsworth Street		Brantford	ON	N3T 3V5	519-759-5095		randy.crosby@cn.ca
Utilities	Enbridge Gas	Mr.	Russell	McLean	Manager, GIS and Records Administration	500 Consumers Road		North York	ON	M2J 1P8	416-758-7930		
Provincial/Federal Agencies	Environment Canada Water Policy and Coordination Directorate	Ms.	Jennifer	Moore	Director General	351 St Joseph Boulevard		Gatineau	QC	K1A 0H3	819-997-5674		
Provincial/Federal Agencies	Environmental Assessment And Approvals Branch					2 St. Clair Avenue West	Floor 12A	Toronto	ON	M4V 1L5	1-800-461-6290	416-314-8452	
Provincial/Federal Agencies	Grand River Conservation Authority	Mr.	John	Brum	Resource Planner	400 Clyde Road	P.O. Box 729	Cambridge	ON	N1R 5W6	621-2763 ext. 2233		jbrum@grandriver.ca
Special Interest Groups	Greater KW Chamber of Commerce	Mr.	Ian	McLean	President	PO Box 27367	80 Queen Street North	Kitchener	ON	N2H 6L4	519-749-6838	519-742-4760	
Utilities	Hydro One Networks	Mr.	Walter	Kloostra	Sustainment Manager	483 Bay Street	TCT15-A11, North Tower	Toronto	ON	M5G 2P5			
Special Interest Groups	Kitchener-Waterloo Field Naturalists	Mr.	Fraser	Gibson	President	317 Highland Road East		Kitchener	ON	N2M 3W6			
Utilities	Waterloo-North Hydro	Ms.	Dorothy	Moryc		300 Northfield Drive East		Waterloo	ON	N2G 4L2		519-888-5583	
Provincial/Federal Agencies	Ministry of Agriculture, Food and Rural Affairs	Ms.	Carol	Neumann	Rural Planner	Elora Resource Centre, Unit 10	6484 Wellington Rd 7	Elora	ON	N0B 1S0	519-846-3393		carol.neumann@ontario.ca
Provincial/Federal Agencies	Ministry of Community and Social Services, Central West Region	Ms.	Wendy	Perry	Planning Officer	6733 Mississauga Road	Suite 200	Mississauga	ON	L5N 6J5	905-567-7177	1-877-832-2818	
Provincial/Federal Agencies	Ministry of Culture, Tourism and Recreation	Mr.	George	Potter	Regional Manager	30 Duke Street West	4th Floor, Suite 405	Kitchener	ON	N2H 3W5	519-571-6050	519-578-1632	
Provincial/Federal Agencies	Ministry of Economic Development and Trade	Ms.	Joanne	Gies		30 Duke Street West	Suite 906	Kitchener	ON	N2H 3W5	519-571-6077		
Provincial/Federal Agencies	Ministry of Municipal Affairs and Housing	Mr.	Duane	Evans	Planner	659 Exeter Road	2nd Floor	London	ON	N6E 1L3	519-873-4020		
Provincial/Federal Agencies	Ministry of Natural Resources	Mr.	Mike	Stone	District Planner	Guelph District Office	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4912		
Provincial/Federal Agencies	Ministry of the Environment	Mrs.	Barbara	Slattery	Environmental Assessment Planning Coordinator	West Central Region Office	12 Floor, 119 King Street West	Hamilton	ON	L8P 4Y7	905-521-7864		
Provincial/Federal Agencies	Ministry of the Environment	Ms.	Dolly	Goyette	District Manager	Guelph District Office	1 Stone Road West, 4th Floor	Guelph	ON	N1G 4Y2	519-826-4258		dolly.goyette@ene.gov.on.ca
Provincial/Federal Agencies	Ministry of Transportation	Ms.	Ann	Baldwin	Regional Director	Southwestern Region	659 Exeter Road 4th Floor	London	ON	N6E 1L3	519-873-4333		
First Nations	Mississaugas of the New Credit	Mr.	Bryan	LaForme	Chief	2789 Mississauga Rd.	RR#6	Hagersville	ON	N0A 1H0	905-768-1133		bryanlaforme@newcreditfirstnation.com
First Nations	Ministry of Aboriginal Affairs					160 Bloor Street East	4th Floor	Toronto	ON	M7A 2E6			MAA.EA.Review@ontario.ca
Utilities	Ontario Power Generation Inc.	Ms.	Cara	Clairman	Vice President Sustainable Development	700 University Avenue		Toronto	ON	L5G 1X6	416-592-2555	Main Switchboard	
Provincial/Federal Agencies	Ontario Realty Corporation	Mr.	Brian	Agensky	General Manager Environment and Cultural Heritage		1 Dundas St West	Toronto	ON	M5G 2L5			
Provincial/Federal Agencies	Ontario Secretariat for Aboriginal Affairs	Mr.	David	Pickles	Senior Policy Advisor	720 Bay Street	4th Floor	Toronto	ON	M5G 2K1	416-326-4757		
Special Interest Groups	Region of Waterloo - Waterloo Regional Heritage Foundation	Mr.	Mike	Grivicic		150 Frederick Street	2nd Floor	Kitchener	ON	N2G 4J3	519-575-4493		
Special Interest Groups	Region of Waterloo Ecological and Environmental Advisory Committee	Mr.	Chris	Gosselin		150 Frederick Street		Kitchener	ON	N2G 4J3	519-575-4501		
Municipalities	Region of Waterloo- Planning, Housing and Community Services	Mr.	Rob	Horne	Commissioner	150 Frederick Street	5th Floor	Kitchener	ON	N2G 4J3	519-575-4500		
Municipalities	Region of Waterloo- Public Health Department	Dr.	Liana	Nolan	Commissioner of Public Health and Medical Officer of Health	99 Regina Street South	3rd Floor, Box 1633	Waterloo	ON	N2J 4V3	519-883-2000		
Utilities	Rogers Cable	Mr.	Ted	Hancocks		85 Grand Crest Place	P.O. Box 488	Kitchener	ON	N2G 4A8	519-893-4400		
Special Interest Groups	Safe and Healthy Community Advisory Committee - City of Waterloo				Director of Community Programs and Services	100 Regina Street South	3rd Floor	Waterloo	ON	N2J 4A8			

Group	Company	Title	First Name	Last Name	Job Title	Address 1	Address 2	City	Province	Postal	Phone	Field13	Field14
First Nations	Haudenosaunee Confederacy Chiefs Council	Mr.	Hohahes	Hill	Secretary to Haudenosaunee Confederacy	2634 6th Line Road	RR #2	Ohsweken	ON	N0A 1M0	519-717-7326		jocko@sixnationsns.com
First Nations	Six Nations of the Grand River Territory	Mr.	William	Montour	Chief	1695 Chiefswoods Road	PO Box 5000	Ohsweken	ON	N0A 1M0			wkm@sixnations.ca arleenmaracle@sixnations.ca
Municipalities	The Corporation of the Township of Wilmot	Mr.	Gary	Charbonneau	Director of Public Works	60 Snyder's Road West		Baden	ON	N3A 1A1	519-634-8444 ext 238	519-634-5522	gary.charbonneau@wilmot.ca
Municipalities	Township of Woolwich	Mr.	John	Scarfone	Manager of Planning	24 Church St West	PO Box 158	Elmira	ON	N3B 2Z6			
Utilities	Union Gas				Clerk	603 Kumpf Drive		Waterloo	ON	N2V 1K3	519-885-7400		
Municipal Agency	Waterloo Catholic District School Board	Ms.	Shesh	Maharaj	Chief Financial Officer and Treasurer	35 Weber St West	PO Box 91116	Kitchener	ON	N2G 4G2			
Municipal Agency	Waterloo District School Board	Mr.	Shawn	Callon	Principal Planner, Planning Department	51 Ardelt Avenue		Kitchener	ON	N2C 2R5	519-570-0003 ext. 4308	519-742-1364	shawn_callon@wrdsb.on.ca
Special Interest Groups	Waterloo Historical Society	Ms.	Marion	Roes		Waterloo Historical Society C/O Kitchener Public Library	85 Queen Street North	Kitchener	ON	N2H 2H1	519-743-0271		whs@whs.ca
Utilities	Waterloo-North Hydro	Ms.	Dorothy	Moryc		300 Northfield Drive East		Waterloo	ON	N2G 4L2	519-888-5583		
Special Interest Groups	WPIRG, University of Waterloo				Coordinator	Waterloo Public Interest Research Group	University of Wate	Waterloo	ON	N2L 3G1	519-888-4882	519-725-3093	info@wpirg.org
	Ontario Clean Water Agency (OCWA)	Mr.	Brian	Runstedler	Operations Manager, Brant Haldimand Hub, Waterloo Region	385 Mohawk St	PO Box 911	Brantford	ON	N3T 5S1	519-756-5957		
Provincial/Federal Agencies	Ministry of Infrastructure					900 Bay St	5th Floor, Mowat Block	Toronto	ON	M7A 1C2	1-888-668-4636		
Utilities	Goderich Exeter Rail	Mr.	Randy	Taylor		126 Weber St North		Kitchener	ON	N2H 3Z9	519-272-4707		
Special Interest Groups	Waterloo Advisory Committee on Active Transportation	Mr.	John	Griffin	Environmental Project Manager	265 Lexington Court		Waterloo	ON	N2J 4A8	519-886-2310		
Special Interest Groups	Waterloo Citizens Environmental Advisory Committee	Ms.	Robyn	McMullen	Environmental Policy Planner	100 Regina Street South	PO Box 337, Statior	Waterloo	ON	N2J 4A8	519-747-8531		
Special Interest Groups	Waterloo Park Committee		Eckhard	Pastrik	Landscape Architect	265 Lexington Court		Waterloo	ON	N2J 4A8	519-747-8622		
Special Interest Groups	Univeristy of Waterloo	Dr.	Feridun	Hamdullahpur	President and Vice-Chancellor	200 University Avenue West		Waterloo	ON	N2L 3G1	519-888-4567		
Special Interest Groups	Wilfrid Laurier University	Dr.	Max	Blouw	President and Vice-Chancellor	75 University Avenue West		Waterloo	ON	N2L 3C5	519-884-1970		
Special Interest Groups	Beechwood North Homes Association					326 Beechlawn Drive		Waterloo	ON	N2L 5W6			
Special Interest Groups	Beechwood South Homes Association Inc.					160 Candlewood Crescent		Waterloo	ON	N2L 5T4			
Special Interest Groups	Mary Allen Neighbourhood Association					51 George Street		Waterloo	ON				
Special Interest Groups	Sunnydale Community Association					508-H Sunnydale Place		Waterloo	ON	N2L 3T1			
Special Interest Groups	Westvale Community Association	Mr.	Gary	Kirk		161 Thornberry Lane		Waterloo	ON	N2T 2C9			
Special Interest Groups	Uptown West Neighbourhood Association					No Mailing Information Available							
Planning/Development Groups	Waterloo Region Home Builders Association					725 Bridge St W, Suite 1		Waterloo	ON	N2V 2H1			
Planning/Development Groups	MHBC Planning					200-540 Bingemans Centre Drive		Kitchener	ON	N2B 3X9			
Planning/Development Groups	GSP Group					201-72 Victoria Street South		Kitchener	ON	N2G 4Y9			
Planning/Development Groups	IBI Group					17-105 Lexington Rd		Waterloo	ON	N2J 4R7			
Planning/Development Groups	Labreche Patterson and Associates					330 Trillium Drive	Unit F	Kitchener	ON	N2E 3J2			
Planning/Development Groups	Activa Management Corporation	Mr.	Larry	Masseo	Vice President, Planning & Development Services	55 Columbia St E, Suite 2		Waterloo	ON	N2J 4N7	519-886-9400, Ext. 116	519-886-8955	lmasseo@activagroup.ca

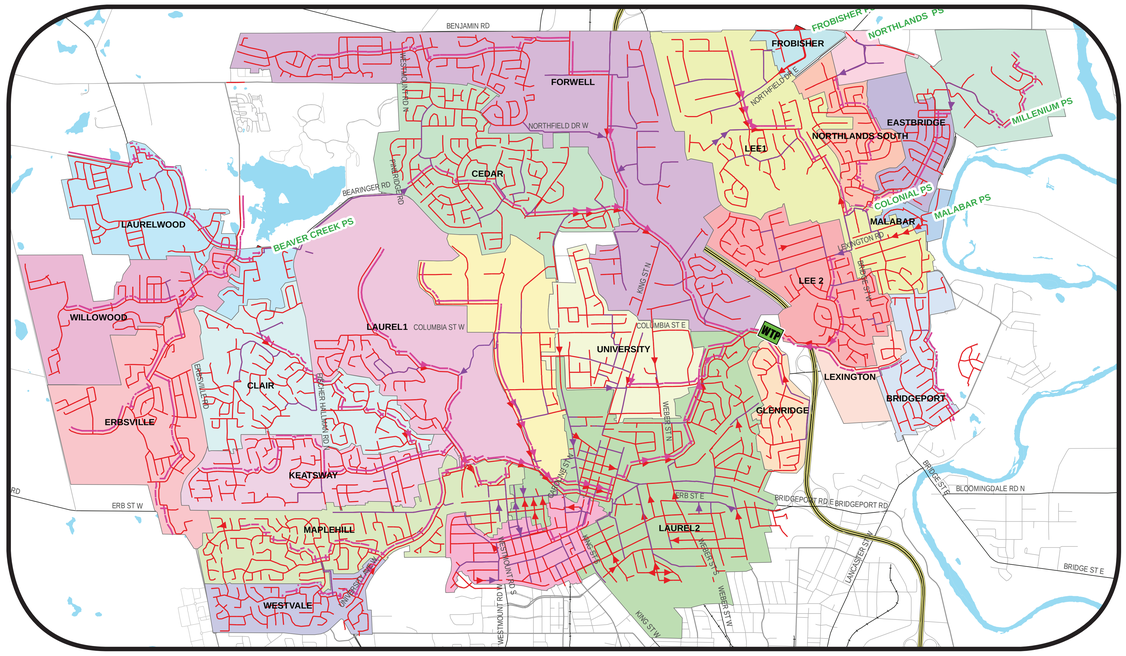
1611-11191 - Waterloo Sanitary Servicing Master Plan Update
Stakeholders Email List
Prepared by: Nicole Sapeta

Group	Company	Title	First Name	Last Name	Job Title	Phone	Email
Special Interest Groups	Clair Hills Community Association						communications@clair-hills.ca
Planning/Development Groups	Auburn Developments		Jamie	Crich			jcrich@auburndev.com
Planning/Development Groups	MHBC Planning	Mr.	Dave	Aston			daston@mhbcplan.com
Planning/Development Groups	MHBC Planning	Mr.	Paul	Britton			pbritton@mhbcplan.com
Planning/Development Groups	MHBC Planning	Ms.	Carol	Wiebe			cwiebe@mhbcplan.com
Planning/Development Groups	GSP Group		Chris	Pidgeon			cpidgeon@gspgroup.ca
Planning/Development Groups	GSP Group	Mr.	Glenn	Scheels			gscheels@gspgroup.ca
Planning/Development Groups	IBI Group	Mr.	Thomas	Hardacre			Thomas.Hardacre@IBIGroup.com
Planning/Development Groups		Mr.	Bill	Gies			billgies@rogers.com
Planning/Development Groups		Mr.	Ken	Droumtsekas			info@CHRISandSONS.com
Planning/Development Groups	IBI Group	Mr.	Ian	Rowlings			irawlings@ibigroup.com
Planning/Development Groups	Cook Homes	Mr.	Ian	Cook			icook@cookhomes.ca
Planning/Development Groups	Stantec Consulting Ltd.	Mr.	Joe	Grubb			jgrubb@stantec.com
Planning/Development Groups							blazeproperties@bellnet.ca
Planning/Development Groups							dietmar.sommerfeld@cbre.com
Planning/Development Groups							andrew@terra-view.com
Planning/Development Groups							jbogdan@bogdanarchitects.ca
Planning/Development Groups							info@reidsheritagehomes.com
Planning/Development Groups							atrabulsi@jameswayconstr.com
Planning/Development Groups							fpatterson@kingsleydev.com
Planning/Development Groups							info@activagroup.ca
Planning/Development Groups							info@chrisandsons.com
Planning/Development Groups							info@cookhomes.ca
Planning/Development Groups							jamieoliver@sympatico.ca
Planning/Development Groups							admin@melloul.com
Planning/Development Groups							marie-schroeder@wrhba.com
Planning/Development Groups							jpassy@cookhomes.ca
Planning/Development Groups							jacqueline.strype@eastforesthomes.com
Planning/Development Groups							janice.kochan@eastforesthomes.com
Planning/Development Groups							pete.graham@mattamycorp.com
Planning/Development Groups							jeff.heimpel@melloul.com
Planning/Development Groups							robert.cumming@emeryhomes.net
Planning/Development Groups							don@dfdl.ca
Planning/Development Groups							eric@churchill-homes.com
Planning/Development Groups							main@kw4rent.com
Planning/Development Groups							pcoppertreeltd@aol.com

The City of Waterloo

Sanitary Servicing Master Plan

Public Consultation Centre #1



Nov. 27th, 2013, 5:00-7:00 PM
Waterloo Memorial Recreation Complex
Bauer Room (Room # 202)
101 Father David Bauer Dr., Waterloo

THE CITY OF Waterloo

Sanitary Servicing Master Plan

Stantec

Problem and Opportunity Statement

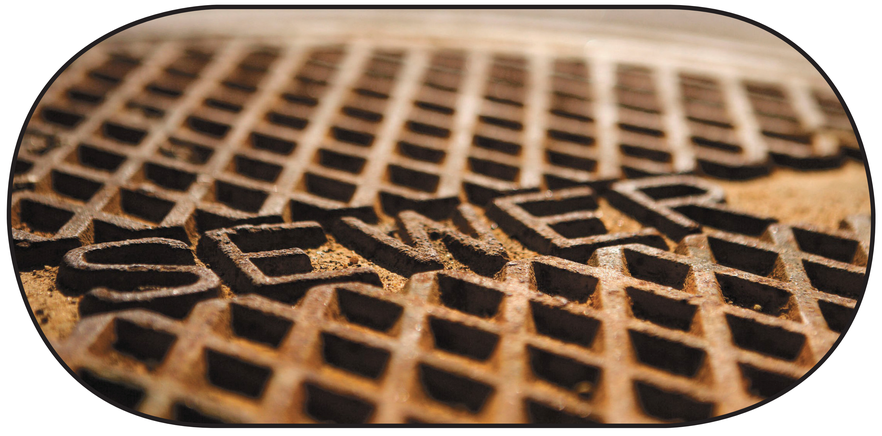
The City is initiating the City-wide 2013 Sanitary Servicing Master Plan Update to account for updated population and employment growth projections up to a 2031 planning horizon.

Priority and strategic projects will be evaluated to:

- Efficiently and effectively continue to operate the system,
- Implement best management practices (including Infiltration/Inflow (I/I) monitoring and mitigation approaches), and
- Optimize staging of the sanitary capital program.

Potential alternatives may include:

- Upgrading existing sanitary infrastructure,
- Installing new sanitary infrastructure (including the potential addition of infrastructure to accommodate sanitary flows from the St. Jacobs Wastewater Treatment Facility), and
- Consideration of the transfer of private services (such as septic systems) to municipal servicing.



Background

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from:

- The City of Kitchener Bridgeport and Falconridge Sewage Pumping Stations (SPiS),
- The Township of Woolwich Stockyards Industrial/Commercial Area and King 86 Power Centre Area, and
- Waterloo Region's Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system.

Within the City, there are areas not presently connected to the municipal wastewater collection system which are serviced by septic systems or privately owned infrastructure.

THE CITY OF Waterloo

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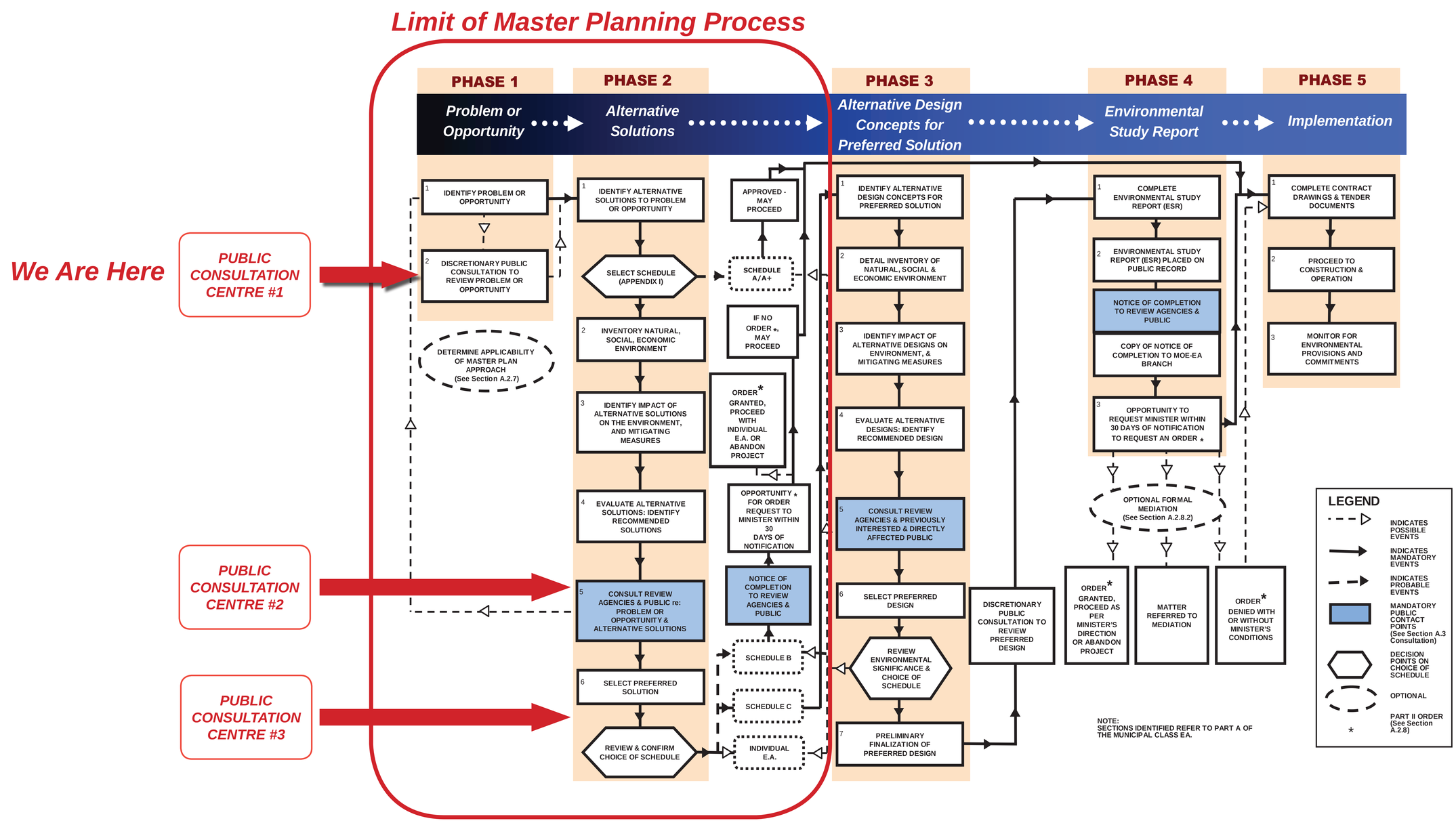
Master Planning Process



This project is being planned and implemented according to the Municipal Class EA process (June 2000, and amended 2007 and 2011).

THE CITY OF Waterloo

Project Tasks

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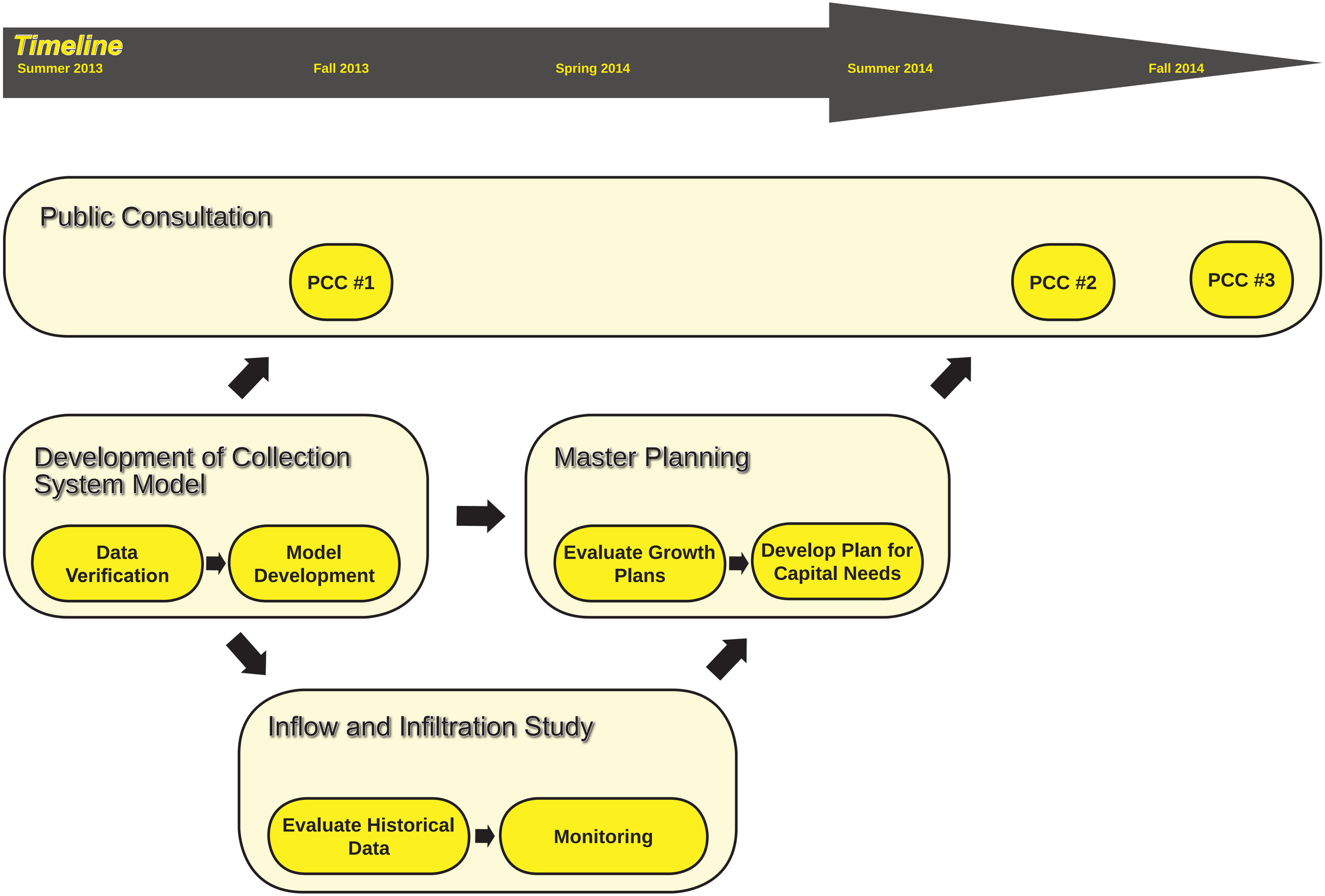
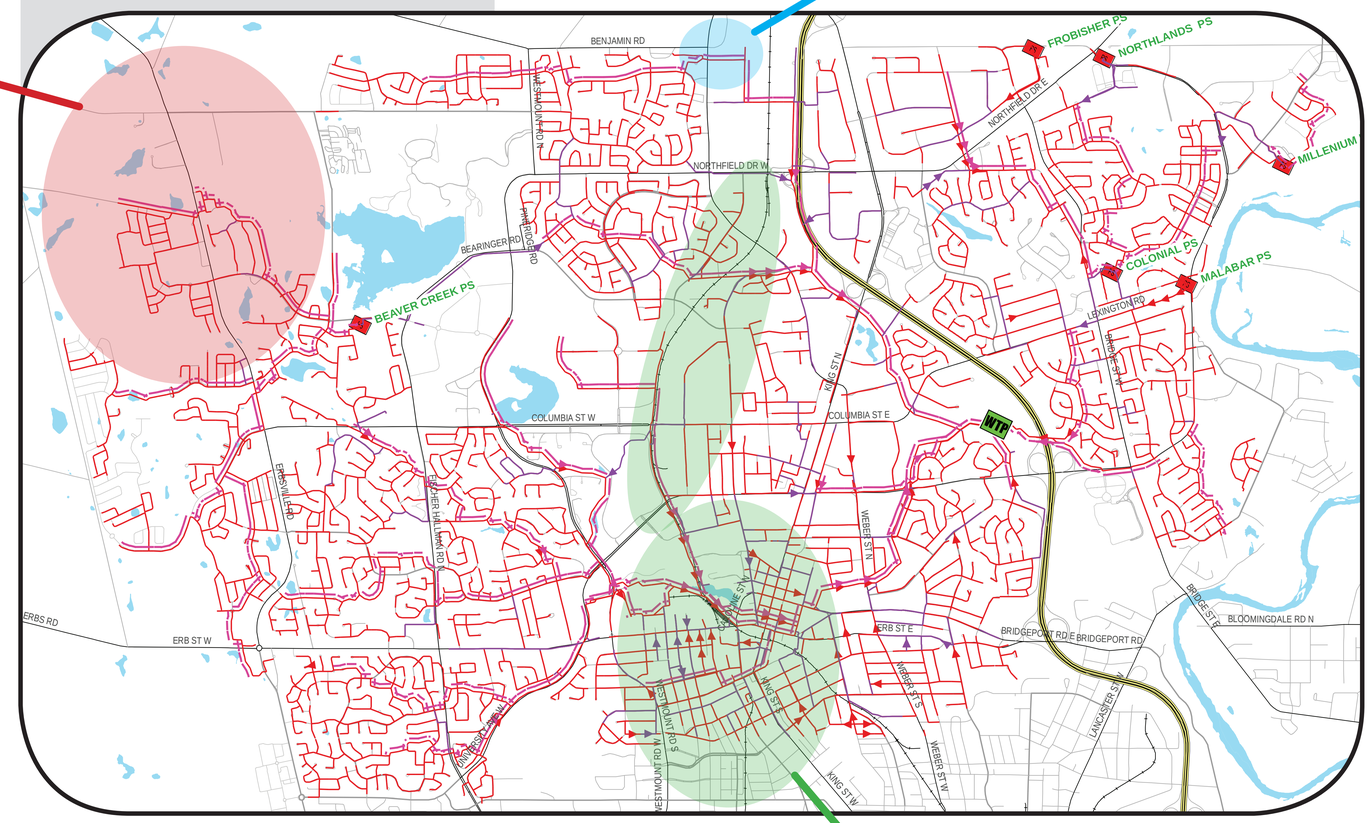


Key Challenges

Development and Growth Patterns

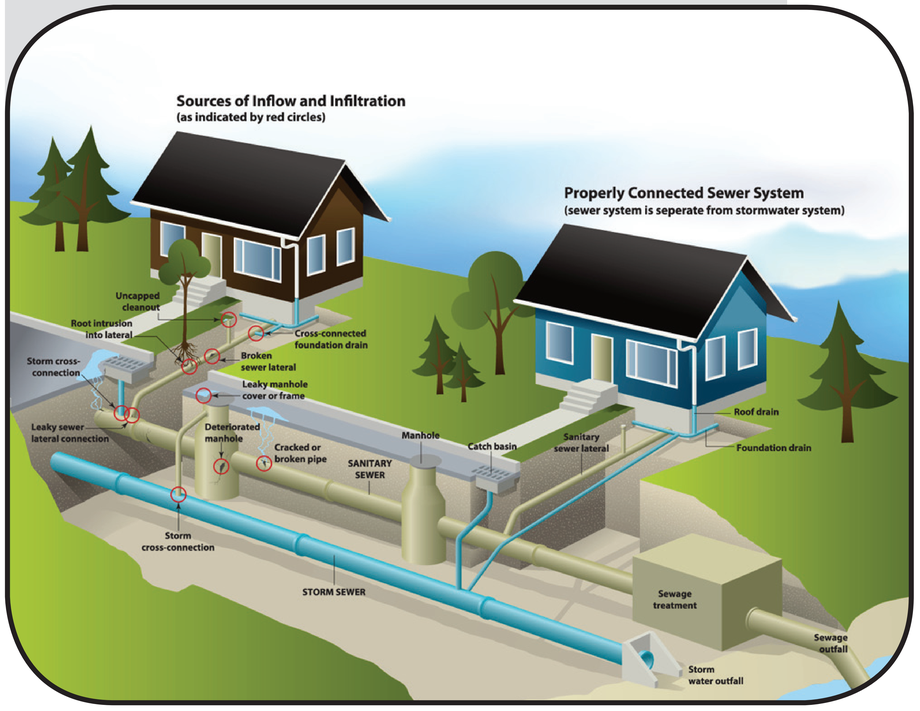
Flows from the Township of Woolwich

Greenfield Growth



Intensification in Core and Along LRT Route

Inflow and Infiltration Impacts on the System



THE CITY OF Waterloo

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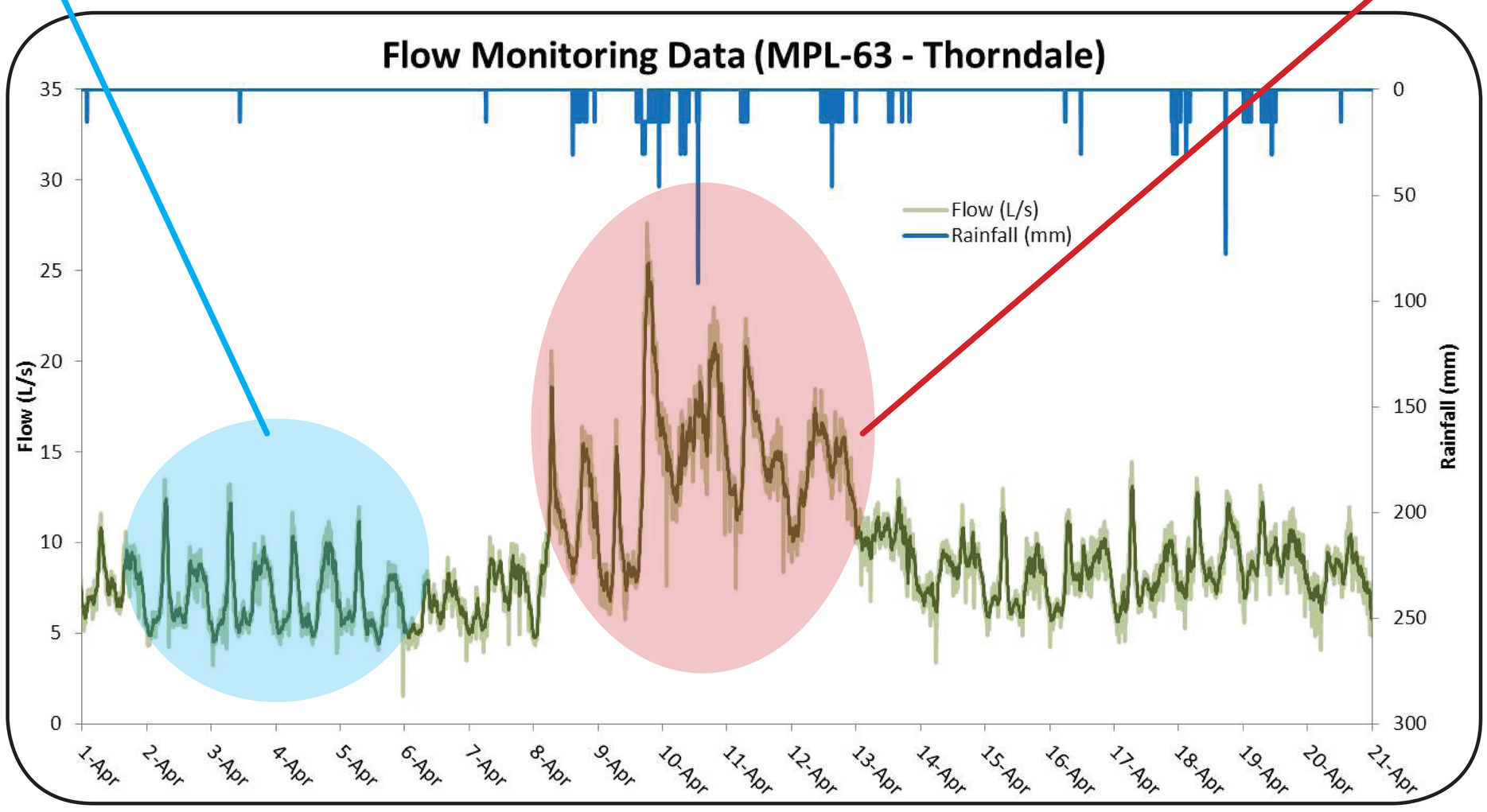
Inflow and Infiltration: What Does It Mean?

Important to Understand Impacts from I/I on the Capacity of the System

Normal Dry Weather Flows

Rain Events that Result in High Flows in the Sewer



THE CITY OF Waterloo

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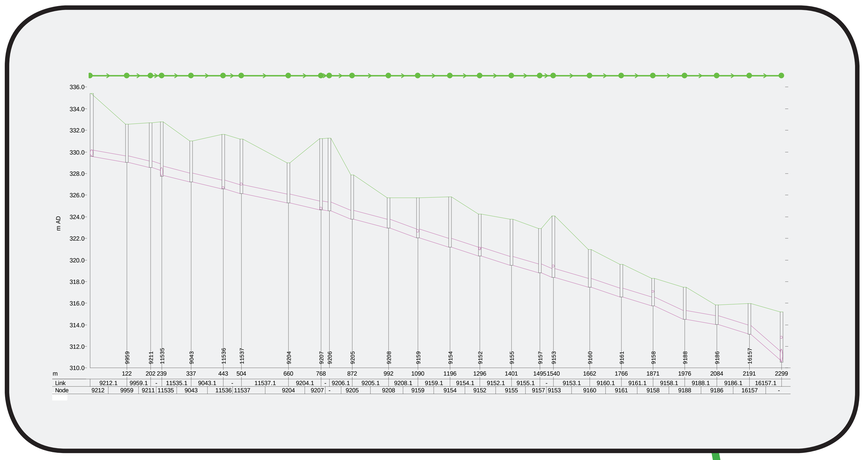
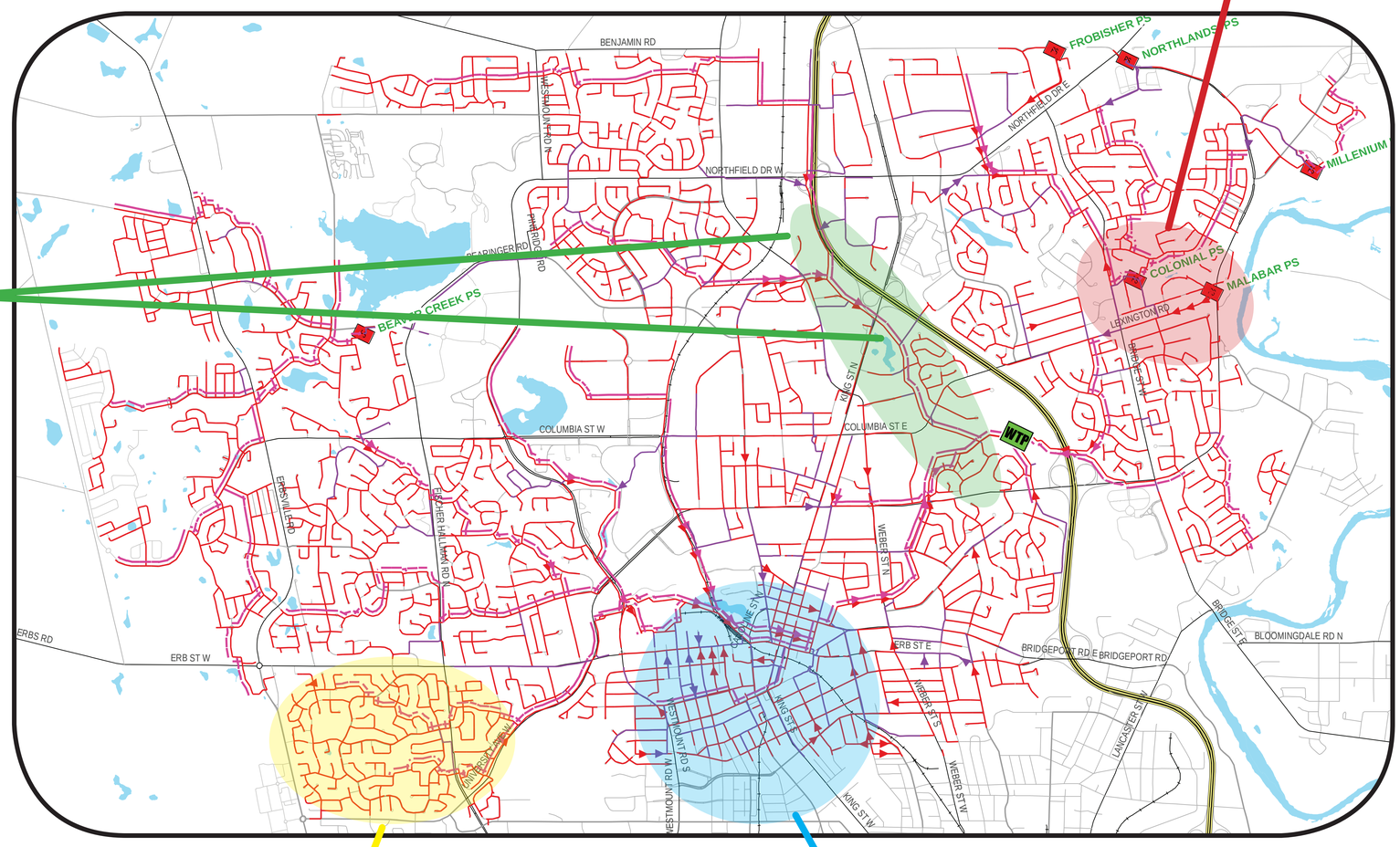
Preliminary Work



Validation of Key Trunk Sewers

Preparing Information for Evaluation of Needs



I/I Data Analysis

Confirming Sewersheds in the City

THE CITY OF Waterloo

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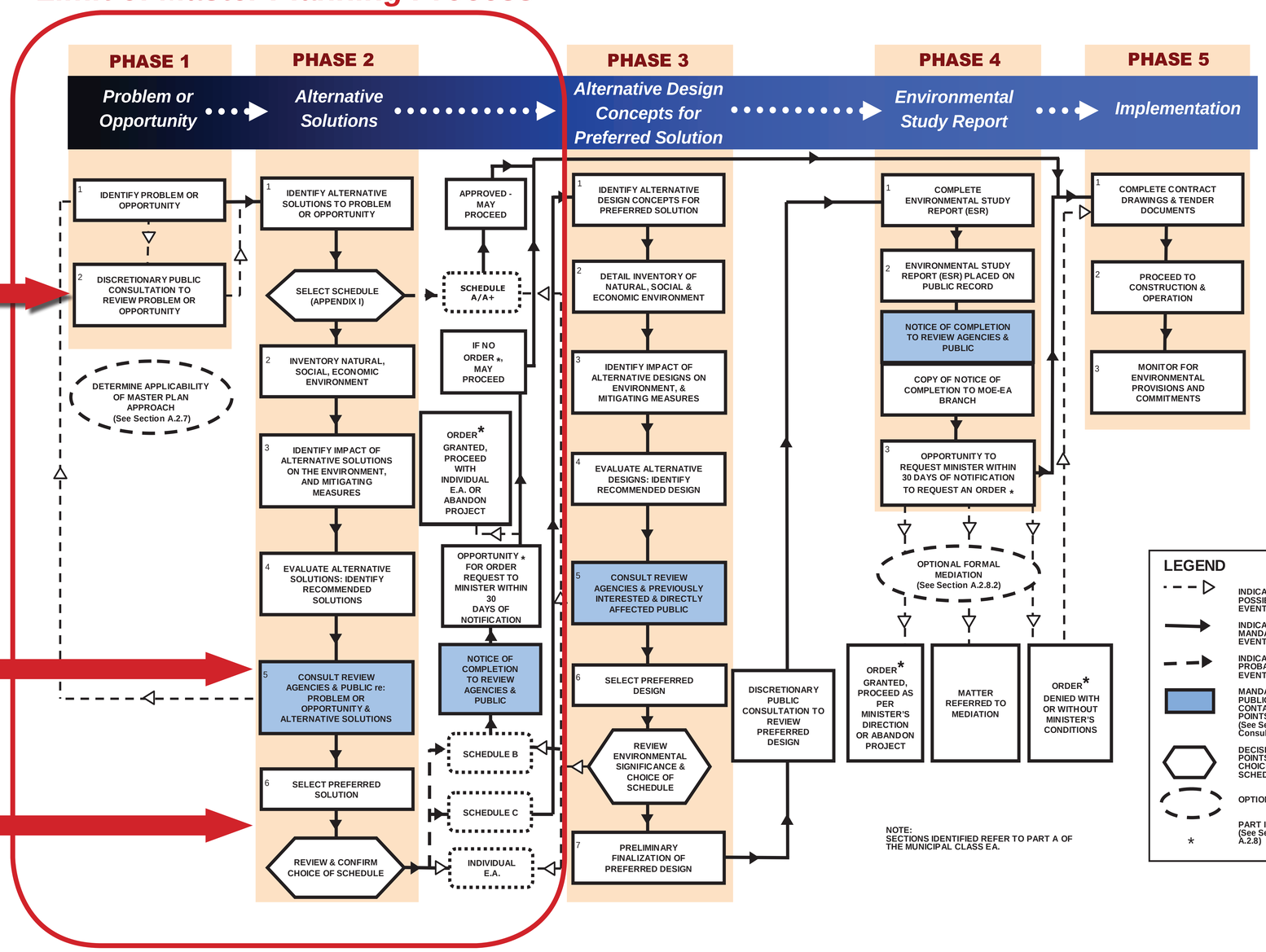
Next Steps

Development of Collection System Model and I/I Study → Identification and Evaluation of Alternatives



PUBLIC CONSULTATION CENTRE #1

PUBLIC CONSULTATION CENTRE #2

PUBLIC CONSULTATION CENTRE #3

Next Consultation

Fall, 2013

THE CITY OF Waterloo

PUBLIC CONSULTATION CENTRE #1
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

Wednesday, November 27, 2013 from 5:00 pm to 7:00 pm
Waterloo Memorial Recreation Complex, Bauer Room, #202
101 Father David Bauer Dr, Waterloo

ATTENDANCE REGISTRATION

NAME	ADDRESS	TELEPHONE NUMBER
Jakub Cyperling	Waterloo (PM)	(519) 747-8604
Dave Eadie	Stantec	(519) 585-4110
GARY SUTTON	441 Lexington Cr Waterloo	519-885-2750
Kevin Dolishny	Region of Waterloo	519 575 4757 x3862.
Leigh McDermott	Stantec	(519) 585-7121
Nicole Sapeta	Stantec	(519) 585-7364

PUBLIC CONSULTATION CENTRE #1
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

Wednesday, November 27, 2013 from 5:00 pm to 7:00 pm
Waterloo Memorial Recreation Complex, Bauer Room, #202
101 Father David Bauer Dr, Waterloo

COMMENT SHEET

Thank you for your interest in this project. You are encouraged to provide your comments on this sheet and leave them in the box provided at the Public Consultation Centre or send them to the contacts listed below. Please return your comments by Monday, January 6, 2014.

Jakub Cyperling, C.E.T.
PM & Project Designer, Engineering
City of Waterloo
265 Lexington Court PO Box 337, Stn Waterloo
Waterloo, ON, N2J 4A8
Phone: 519-747-8604
Fax: (519) 886-5788
Email: Jakub.Cyperling@Waterloo.ca

Mr. Leigh McDermott, P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario, N2H 6M7
Phone: (519) 585-7121
Fax: (519) 579-8806
Email: leigh.mcdermott@stantec.com

All comments and information received from individuals, stakeholder groups and agencies regarding this project are being collected to assist the City of Waterloo in making a decision. Under the Municipal Act, personal information such as name, address, telephone number, and property location that may be included in a submission becomes part of the public record. Questions regarding the collection of this information should be forwarded to the City staff member indicated above.

NAME:
ADDRESS:
TELEPHONE:

COMMENTS:

COMMENTS:

PUBLIC CONSULTATION CENTRE #1
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

Wednesday, November 27, 2013 from 5:00 pm to 7:00 pm
Waterloo Memorial Recreation Complex, Bauer Room, #202
101 Father David Bauer Dr, Waterloo

HANDOUT SHEET

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from City of Kitchener located Bridgeport and Falconridge Sewage Pumping Stations (SPS), Stockyards Industrial/Commercial Area and King 86 Power Centre Area – Township of Woolwich and Waterloo Region Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system. Within the City there are areas not presently connected to the municipal wastewater collection system which are serviced by septic systems or privately owned infrastructure. The City's current City-wide Sanitary Sewer System Update Master Plan, completed in 2002, identified priority (2002 to 2006) and strategic (2007-2016) projects to operate the sanitary system and accommodate growth up to the 2016 planning horizon.

The City is initiating the City-wide 2013 Sanitary Servicing Master Plan to account for updated population and employment growth projections up to a 2031 planning horizon. Priority and strategic projects will be evaluated to efficiently and effectively continue to operate the system, implement best management practices (including Infiltration/Inflow (I/I) monitoring and mitigation approaches), and optimize staging of the sanitary capital program. Potential alternatives may include upgrading existing sanitary infrastructure, installing new sanitary infrastructure (including the potential addition of infrastructure to accommodate sanitary flows from the St. Jacobs Wastewater Treatment Facility) and consideration of the transfer of private services (such as septic systems) to municipal servicing.

For additional information concerning this project, please visit the website at www.waterloo.ca/sanitarymasterplan or contact either of the representatives below:

Mr. Leigh McDermott, P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario, N2H 6M7
Phone: (519) 585-7121
Fax: (519) 579-8806
Email: leigh.mcdermott@stantec.com

Jakub Cyperling, C.E.T.
PM & Project Designer, Engineering
City of Waterloo
265 Lexington Court PO Box 337, Stn Waterloo
Waterloo, ON, N2J 4A8
Phone: 519-747-8604
Fax: (519) 886-5788
Email: Jakub.Cyperling@Waterloo.ca

PUBLIC NOTICE
NOTICE OF PUBLIC MEETING
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

The Study

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from the City of Kitchener located Bridgeport and Falconridge Sewage Pumping Stations (SPS), the Township of Woolwich, Waterloo Region Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system. The City's current City-wide Sanitary Sewer System Update Master Plan, completed in 2002, identified priority (2002 to 2006) and strategic (2007-2016) projects to operate the sanitary system and accommodate growth up to the 2016 planning horizon. The City is undergoing the City-wide 2014 Sanitary Servicing Master Plan Update to account for updated population and employment growth projections up to a 2031 planning horizon.

The Process

This study is being conducted in accordance with the Municipal Engineers' Association document entitled "Municipal Class Environmental Assessment" October 2000, as amended in 2007. An integral component of this study is public consultation with various interested stakeholders.

Public Consultation Centre #2 (PCC #2)

PCC #2 will take place Wednesday April 8, 2015 from 5:00 to 7:00 pm at Waterloo Memorial Recreation Complex Kiwanis Room, #201. This Public Meeting will provide an overview of the City's sanitary works, educate attendees on the Master Plan process and review the proposed servicing alternatives.

As a part of the City-wide 2014 Sanitary Servicing Master Plan, a hydraulic model was developed of the collection system. Input data was validated and the model was calibrated based on observed flow monitoring data. Future loadings were developed based on planning population forecasts, and system capacity was assessed based on model results. Servicing alternatives have been identified to accommodate anticipated population growth including infill/intensification and greenfield development, and for the transfer of private services to municipal servicing. To efficiently and effectively continue operation of the system, best management practices have been identified including Infiltration/Inflow (I/I) monitoring and mitigation approaches, and ongoing system rehabilitation.

If you are interested in being placed on the mailing list to receive future information, please register at http://www.waterloo.ca/sanitarymasterplan. To request additional information concerning this project, please contact either of the representatives below.

Jakub Cyperling, C.E.T.
Project Manager & Designer
City of Waterloo
265 Lexington Court, PO Box 337 Stn Waterloo
Waterloo, Ontario, N2J 4A8
Phone: (519) 886-2310 x 30226
Fax: (519) 886-5788
Email: jakub.cyperling@waterloo.ca

Mr. Leigh McDermott, M.E.Sc., P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario, N2H 6M7
Phone: (519) 585-7121
Fax: (519) 579-8806
Email: leigh.mcdermott@stantec.com

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Stantec Consulting Ltd.
49 Frederick Street, Kitchener ON N2H 6M7

March 23, 2015
File: 1611 11191/40

Reference: CITY-WIDE SANITARY SERVICING MASTER PLAN UPDATE

Please be advised that the City of Waterloo has retained Stantec Consulting Ltd. to undertake the City-wide 2014 Sanitary Servicing Master Plan Update to account for updated population and employment growth projections up to a 2031 planning horizon. The City's current City-wide Sanitary Sewer System Update Master Plan, completed in 2002, and identified projects to operate the sanitary system and accommodate growth up to the 2016 planning horizon.

This study is being conducted in accordance with the Municipal Engineers' Association document entitled "Municipal Class Environmental Assessment" October 2000, as amended in 2007. Therefore public consultation is an integral component of this study.

A Public Consultation Centre (PCC) #2 will take place **Wednesday April 8, 2015 from 5:00 PM to 7:00 PM** at Waterloo Memorial Recreation Complex Kiwanis Room, #201. This Public Meeting will provide an overview of the City's sanitary works, educate attendees on the Master Plan process and review the proposed servicing alternatives. Additional details regarding the study may be found on the attached Notice of PCC #2. To request additional information concerning this project, please feel free to contact the undersigned.

Regards,

STANTEC CONSULTING LTD.

Leigh McDermott, M.E.Sc., P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, ON N2H 6M7
Phone: (519) 585-7121
Fax: (519) 579-8806
leigh.mcdermott@stantec.com

Attachment: Notice of Public Consultation Centre 2

c. Jakub Cyperling, C.E.T, City of Waterloo

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PUBLIC NOTICE
NOTICE OF PUBLIC MEETING
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

The Study

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Jakub Cyperling, C.E.T.
Project Manager & Designer
City of Waterloo
265 Lexington Court, PO Box 337 Stn Waterloo
Waterloo, Ontario, N2J 4A8
Phone: (519) 886-2310 x 30226
Fax: (519) 886-5788
Email: jakub.cyperling@waterloo.ca

Mr. Leigh McDermott, M.E.Sc., P.Eng.
Project Manager
Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario, N2H 6M7
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1611-11191 - Waterloo Sanitary Servicing Master Plan Update
Stakeholders Mailing List
Prepared by: Nicole Sapeta

Updates: Added new contact for Six Nations of Grand River Territory
Removed Ministry of Aboriginal Affairs based on December 2013 correspondence
Added Metis Nation of Ontario based on November 2013 MOE correspondence

Group	Company	Title	First Name	Last Name	Job Title	Address 1	Address 2	City	Province	Postal	Phone	Field13	Field14
First Nations	Aboriginal Affairs				Environmental Assessment Coordination	25 St. Clair Avenue East	8th Floor	Toronto	ON	M4T 1M2			N@aandc-aadnc.gc.ca
Utilities	Bell Canada	Ms.	Gayle	Widmeyer	Manager	Access Network Department	575 Riverbend Drive, Floor 2	Kitchener	ON	N2K 3S3			
Special Interest Groups	Canadian Heritage Rivers System	Ms.	Johanne	Ranger	Acting Manager	3rd Floor	30 Victoria Street	Gatineau	Quebec	J8X0B3	819-420-9172		johanne.ranger@pc.gc.ca
Utilities	Canadian Pacific Railway	Mr.	Francois	Beauclair	Director of Facilities, East	P.O. Box 6042	Station C.V.	Montreal	Quebec	H3C 3E4	514-395-5429		
Municipalities	City of Kitchener	Mr.	Eric	Riek	Project Manager	City of Kitchener	P.O. 1118	Kitchener	ON	N2G 4G7			
Utilities	CN	Mr.	Randy	Crosby	Track Supervisor	15 Wadsworth Street		Brantford	ON	N3T 3V5	519-759-5095		randy.crosby@cn.ca
Utilities	Enbridge Gas	Mr.	Russell	McLean	Manager, GIS and Records Administration	500 Consumers Road		North York	ON	M2J 1P8	416-758-7930		
Provincial/Federal Agencies	Environment Canada Water Policy and Coordination Directorate	Ms.	Jennifer	Moore	Director General	351 St Joseph Boulevard		Gatineau	QC	K1A 0H3	819-997-5674		
Provincial/Federal Agencies	Environmental Assessment And Approvals Branch					2 St. Clair Avenue West	Floor 12A	Toronto	ON	M4V 1L5	1-800-461-6290	416-314-8452	
Provincial/Federal Agencies	Grand River Conservation Authority	Mr.	John	Brum	Resource Planner	400 Clyde Road	P.O. Box 729	Cambridge	ON	N1R 5W6	621-2763 ext. 2233		jbrum@grandriver.ca
Special Interest Groups	Greater KW Chamber of Commerce	Mr.	Ian	McLean	President	PO Box 27367	80 Queen Street North	Kitchener	ON	N2H 6L4	519-749-6838	519-742-4760	
Utilities	Hydro One Networks	Mr.	Walter	Kloostra	Sustainment Manager	483 Bay Street	TCT15-A11, North Tower	Toronto	ON	M5G 2P5			
Special Interest Groups	Kitchener-Waterloo Field Naturalists	Mr.	Fraser	Gibson	President	317 Highland Road East		Kitchener	ON	N2M 3W6			
Utilities	Waterloo-North Hydro	Ms.	Dorothy	Moryc		300 Northfield Drive East		Waterloo	ON	N2G 4L2		519-888-5583	
Provincial/Federal Agencies	Ministry of Agriculture, Food and Rural Affairs	Ms.	Carol	Neumann	Rural Planner	Elora Resource Centre, Unit 10	6484 Wellington Rd 7	Elora	ON	N0B 1S0	519-846-3393		carol.neumann@ontario.ca
Provincial/Federal Agencies	Ministry of Community and Social Services, Central West Region	Ms.	Wendy	Perry	Planning Officer	6733 Mississauga Road	Suite 200	Mississauga	ON	L5N 6J5	905-567-7177	1-877-832-2818	
Provincial/Federal Agencies	Ministry of Culture, Tourism and Recreation	Mr.	George	Potter	Regional Manager	30 Duke Street West	4th Floor, Suite 405	Kitchener	ON	N2H 3W5	519-571-6050	519-578-1632	
Provincial/Federal Agencies	Ministry of Economic Development and Trade	Ms.	Joanne	Gies		30 Duke Street West	Suite 906	Kitchener	ON	N2H 3W5	519-571-6077		
Provincial/Federal Agencies	Ministry of Municipal Affairs and Housing	Mr.	Duane	Evans	Planner	659 Exeter Road	2nd Floor	London	ON	N6E 1L3	519-873-4020		
Provincial/Federal Agencies	Ministry of Natural Resources	Mr.	Mike	Stone	District Planner	Guelph District Office	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4912		
Provincial/Federal Agencies	Ministry of the Environment	Mrs.	Barbara	Slattery	Environmental Assessment Planning Coordinator	West Central Region Office	12 Floor, 119 King Street West	Hamilton	ON	L8P 4Y7	905-521-7864		
Provincial/Federal Agencies	Ministry of the Environment	Ms.	Dolly	Goyette	District Manager	Guelph District Office	1 Stone Road West, 4th Floor	Guelph	ON	N1G 4Y2	519-826-4258		dolly.goyette@ene.gov.on.ca
Provincial/Federal Agencies	Ministry of Transportation	Ms.	Ann	Baldwin	Regional Director	Southwestern Region	659 Exeter Road 4th Floor	London	ON	N6E 1L3	519-873-4333		
First Nations	Mississaugas of the New Credit	Mr.	Bryan	LaForme	Chief	2789 Mississauga Rd.	RR#6	Hagersville	ON	N0A 1H0	905-768-1133		bryanlaforme@newcreditfirstnation.com
Utilities	Ontario Power Generation Inc.	Ms.	Cara	Clairman	Vice President Sustainable Development	700 University Avenue		Toronto	ON	L5G 1X6	416-592-2555	Main Switchboard	
Provincial/Federal Agencies	Ontario Realty Corporation	Mr.	Brian	Agensky	General Manager Environment and Cultural Heritage		1 Dundas St West	Toronto	ON	M5G 2L5			
Provincial/Federal Agencies	Ontario Secretariat for Aboriginal Affairs	Mr.	David	Pickles	Senior Policy Advisor	720 Bay Street	4th Floor	Toronto	ON	M5G 2K1	416-326-4757		
Special Interest Groups	Region of Waterloo - Waterloo Regional Heritage Foundation	Mr.	Mike	Grivicic		150 Frederick Street	2nd Floor	Kitchener	ON	N2G 4J3	519-575-4493		
Special Interest Groups	Region of Waterloo Ecological and Environmental Advisory Committee	Mr.	Chris	Gosselin		150 Frederick Street		Kitchener	ON	N2G 4J3	519-575-4501		
Municipalities	Region of Waterloo- Planning, Housing and Community Services	Mr.	Rob	Horne	Commissioner	150 Frederick Street	5th Floor	Kitchener	ON	N2G 4J3	519-575-4500		
Municipalities	Region of Waterloo- Public Health Department	Dr.	Liana	Nolan	Commissioner of Public Health and Medical Officer of Health	99 Regina Street South	3rd Floor, Box 1633	Waterloo	ON	N2J 4V3	519-883-2000		
Utilities	Rogers Cable	Mr.	Ted	Hancocks		85 Grand Crest Place	P.O. Box 488	Kitchener	ON	N2G 4A8	519-893-4400		
Special Interest Groups	Safe and Healthy Community Advisory Committee - City of Waterloo				Director of Community Programs and Services	100 Regina Street South	3rd Floor	Waterloo	ON	N2J 4A8			
First Nations	Haudenosaunee Confederacy Chiefs Council	Mr.	Hohahes	Hill	Secretary to Haudenosaunee Confederacy	2634 6th Line Road	RR #2	Ohsweken	ON	N0A 1M0	519-717-7326		jocko@sixnationsns.com

Group	Company	Title	First Name	Last Name	Job Title	Address 1	Address 2	City	Province	Postal	Phone	Field13	Field14	
First Nations	Six Nations of the Grand River Territory	Mr.	William	Montour	Chief	1695 Chiefswoods Road	PO Box 5000	Ohsweken	ON	N0A 1M0			wkm@sixnations.ca	arleenmaracle@sixnations.ca
Municipalities	The Corporation of the Township of Wilmot	Mr.	Gary	Charbonneau	Director of Public Works	60 Snyder's Road West		Baden	ON	N3A 1A1	519-634-8444 ext 238	519-634-5522	gary.charbonneau @wilmot.ca	
Municipalities	Township of Woolwich	Mr.	John	Scarfone	Manager of Planning	24 Church St West	PO Box 158	Elmira	ON	N3B 2Z6				
Utilities	Union Gas				Clerk	603 Kumpf Drive		Waterloo	ON	N2V 1K3	519-885-7400			
Municipal Agency	Waterloo Catholic District School Board	Ms.	Shesh	Maharaj	Chief Financial Officer and Treasurer	35 Weber St West	PO Box 91116	Kitchener	ON	N2G 4G2				
Municipal Agency	Waterloo District School Board	Mr.	Shawn	Callon	Principal Planner, Planning Department	51 Ardelt Avenue		Kitchener	ON	N2C 2R5	519-570-0003 ext. 4308	519-742-1364	shawn_callon@wrdsb.on.ca	
Special Interest Groups	Waterloo Historical Society	Ms.	Marion	Roes		Waterloo Historical Society C/O Kitchener Public Library	85 Queen Street North	Kitchener	ON	N2H 2H1	519-743-0271		whs@whs.ca	
Utilities	Waterloo-North Hydro	Ms.	Dorothy	Moryc		300 Northfield Drive East		Waterloo	ON	N2G 4L2	519-888-5583			
Special Interest Groups	WPIRG, University of Waterloo				Coordinator	Waterloo Public Interest Research Group	University of Wate	Waterloo	ON	N2L 3G1	519-888-4882	519-725-3093	info@wpirg.org	
	Ontario Clean Water Agency (OCWA)	Mr.	Brian	Runstedler	Operations Manager, Brant Haldimand Hub, Waterloo Region	385 Mohawk St	PO Box 911	Brantford	ON	N3T 5S1	519-756-5957			
Provincial/Federal Agencies	Ministry of Infrastructure					900 Bay St	5th Floor, Mowat Block	Toronto	ON	M7A 1C2	1-888-668-4636			
Utilities	Goderich Exeter Rail	Mr.	Randy	Taylor		126 Weber St North		Kitchener	ON	N2H 3Z9	519-272-4707			
Special Interest Groups	Waterloo Advisory Committee on Active Transportation	Mr.	John	Griffin	Environmental Project Manager	265 Lexington Court		Waterloo	ON	N2J 4A8	519-886-2310			
Special Interest Groups	Waterloo Citizens Environmental Advisory Committee	Ms.	Robyn	McMullen	Environmental Policy Planner	100 Regina Street South	PO Box 337, Statio	Waterloo	ON	N2J 4A8	519-747-8531			
Special Interest Groups	Waterloo Park Committee		Eckhard	Pastrik	Landscape Architect	265 Lexington Court		Waterloo	ON	N2J 4A8	519-747-8622			
Special Interest Groups	Univeristy of Waterloo	Dr.	Feridun	Hamdullahpur	President and Vice-Chancellor	200 University Avenue West		Waterloo	ON	N2L 3G1	519-888-4567			
Special Interest Groups	Wilfrid Laurier University	Dr.	Max	Blouw	President and Vice-Chancellor	75 University Avenue West		Waterloo	ON	N2L 3C5	519-884-1970			
Special Interest Groups	Beechwood North Homes Association					326 Beechlawn Drive		Waterloo	ON	N2L 5W6				
Special Interest Groups	Beechwood South Homes Association Inc.					160 Candlewood Crescent		Waterloo	ON	N2L 5T4				
Special Interest Groups	Mary Allen Neighbourhood Association					51 George Street		Waterloo	ON					
Special Interest Groups	Sunnydale Community Association					508-H Sunnydale Place		Waterloo	ON	N2L 3T1				
Special Interest Groups	Westvale Community Association	Mr.	Gary	Kirk		161 Thornberry Lane		Waterloo	ON	N2T 2C9				
Special Interest Groups	Uptown West Neighbourhood Association					No Mailing Information Available								
Planning/Development Groups	Waterloo Region Home Builders Association					725 Bridge St W, Suite 1		Waterloo	ON	N2V 2H1				
Planning/Development Groups	MHBC Planning					200-540 Bingemans Centre Drive		Kitchener	ON	N2B 3X9				
Planning/Development Groups	GSP Group					201-72 Victoria Street South		Kitchener	ON	N2G 4Y9				
Planning/Development Groups	IBI Group					17-105 Lexington Rd		Waterloo	ON	N2J 4R7				
Planning/Development Groups	Labreche Patterson and Associates					330 Trillium Drive	Unit F	Kitchener	ON	N2E 3J2				
Planning/Development Groups	Activa Management Corporation	Mr.	Larry	Masseo	Vice President, Planning & Development Services	55 Columbia St E, Suite 2		Waterloo	ON	N2J 4N7	519-886-9400, Ext. 116	519-886-8955	lmasseo@activagroup.ca	
First Nations	Metis Nation of Ontario					500 Old St. Patrick St	Unit 3	Ottawa	ON	K1N 9G4	613-798-1488			
First Nations	Six Nations of the Grand River Territory	Ms.	Ava	Hill	Chief	1695 Chiefswoods Road	PO Box 5000	Ohsweken	ON	N0A 1M0	519-445-2201			Added based on correspondence received from MAA (December 2013)

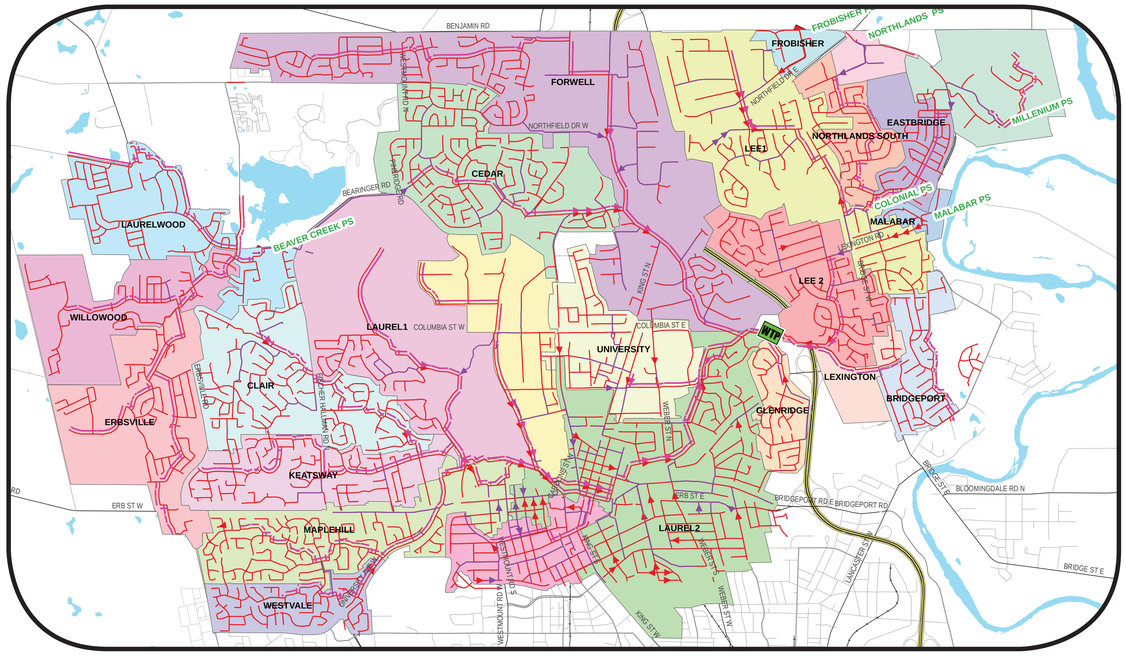
1611-11191 - Waterloo Sanitary Servicing Master Plan Update
Stakeholders Email List
Prepared by: Nicole Sapeta

Group	Company	Title	First Name	Last Name	Job Title	Phone	Email
Special Interest Groups	Clair Hills Community Association						communications@clair-hills.ca
Planning/Development Groups	Auburn Developments		Jamie	Crich			jcrich@auburndev.com
Planning/Development Groups	MHBC Planning	Mr.	Dave	Aston			daston@mhbcplan.com
Planning/Development Groups	MHBC Planning	Mr.	Paul	Britton			pbritton@mhbcplan.com
Planning/Development Groups	MHBC Planning	Ms.	Carol	Wiebe			cwiebe@mhbcplan.com
Planning/Development Groups	GSP Group		Chris	Pidgeon			cpidgeon@gspgroup.ca
Planning/Development Groups	GSP Group	Mr.	Glenn	Scheels			gscheels@gspgroup.ca
Planning/Development Groups	IBI Group	Mr.	Thomas	Hardacre			Thomas.Hardacre@IBIGroup.com
Planning/Development Groups		Mr.	Bill	Gies			billgies@rogers.com
Planning/Development Groups		Mr.	Ken	Droumtsekas			info@CHRISandSONS.com
Planning/Development Groups	IBI Group	Mr.	Ian	Rowlings			irawlings@ibigroup.com
Planning/Development Groups	Cook Homes	Mr.	Ian	Cook			icook@cookhomes.ca
Planning/Development Groups	Stantec Consulting Ltd.	Mr.	Joe	Grubb			jgrubb@stantec.com
Planning/Development Groups							blazeproperties@bellnet.ca
Planning/Development Groups							dietmar.sommerfeld@cbre.com
Planning/Development Groups							andrew@terra-view.com
Planning/Development Groups							jbogdan@bogdanarchitects.ca
Planning/Development Groups							info@reidsheritagehomes.com
Planning/Development Groups							atrabulsi@jameswayconstr.com
Planning/Development Groups							fpatterson@kingsleydev.com
Planning/Development Groups							info@activagroup.ca
Planning/Development Groups							info@chrisandsons.com
Planning/Development Groups							info@cookhomes.ca
Planning/Development Groups							jamieoliver@sympatico.ca
Planning/Development Groups							admin@melloul.com
Planning/Development Groups							marie-schroeder@wrhba.com
Planning/Development Groups							jpassy@cookhomes.ca
Planning/Development Groups							jacqueline.strype@eastforesthomes.com
Planning/Development Groups							janice.kochan@eastforesthomes.com
Planning/Development Groups							pete.graham@mattamycorp.com
Planning/Development Groups							jeff.heimpel@melloul.com
Planning/Development Groups							robert.cumming@emeryhomes.net
Planning/Development Groups							don@dfdl.ca
Planning/Development Groups							eric@churchill-homes.com
Planning/Development Groups							main@kw4rent.com
Planning/Development Groups							pcoppertreeltd@aol.com

The City of Waterloo

Sanitary Servicing Master Plan

Public Consultation Centre #2



April 8, 2015 | 5:00 PM to 7:00 PM
Waterloo Memorial Recreation Complex
Kiwanis Room (Room # 201)
101 Father David Bauer Drive
Waterloo, Ontario N2J 4A8

THE CITY OF Waterloo

Sanitary Servicing Master Plan

Stantec

Problem and Opportunity Statement

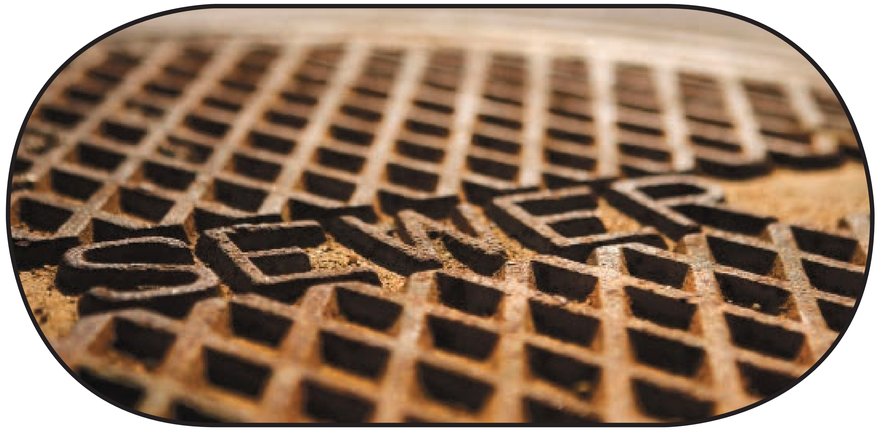
The City is completing the City-wide 2014 Sanitary Servicing Master Plan Update to account for updated population and employment growth projections up to a 2031 planning horizon.

Priority and strategic projects will be evaluated to:

- Efficiently and effectively continue to operate the system,
- Implement best management practices (including Infiltration/Inflow (I/I) monitoring and mitigation approaches), and
- Optimize staging of the sanitary capital program.

Potential alternatives may include:

- Upgrading existing sanitary infrastructure,
- Installing new sanitary infrastructure (including the potential addition of infrastructure to accommodate sanitary flows from the St. Jacobs Wastewater Treatment Facility), and
- Consideration of the transfer of private services (such as septic systems) to municipal servicing.



Background

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from:

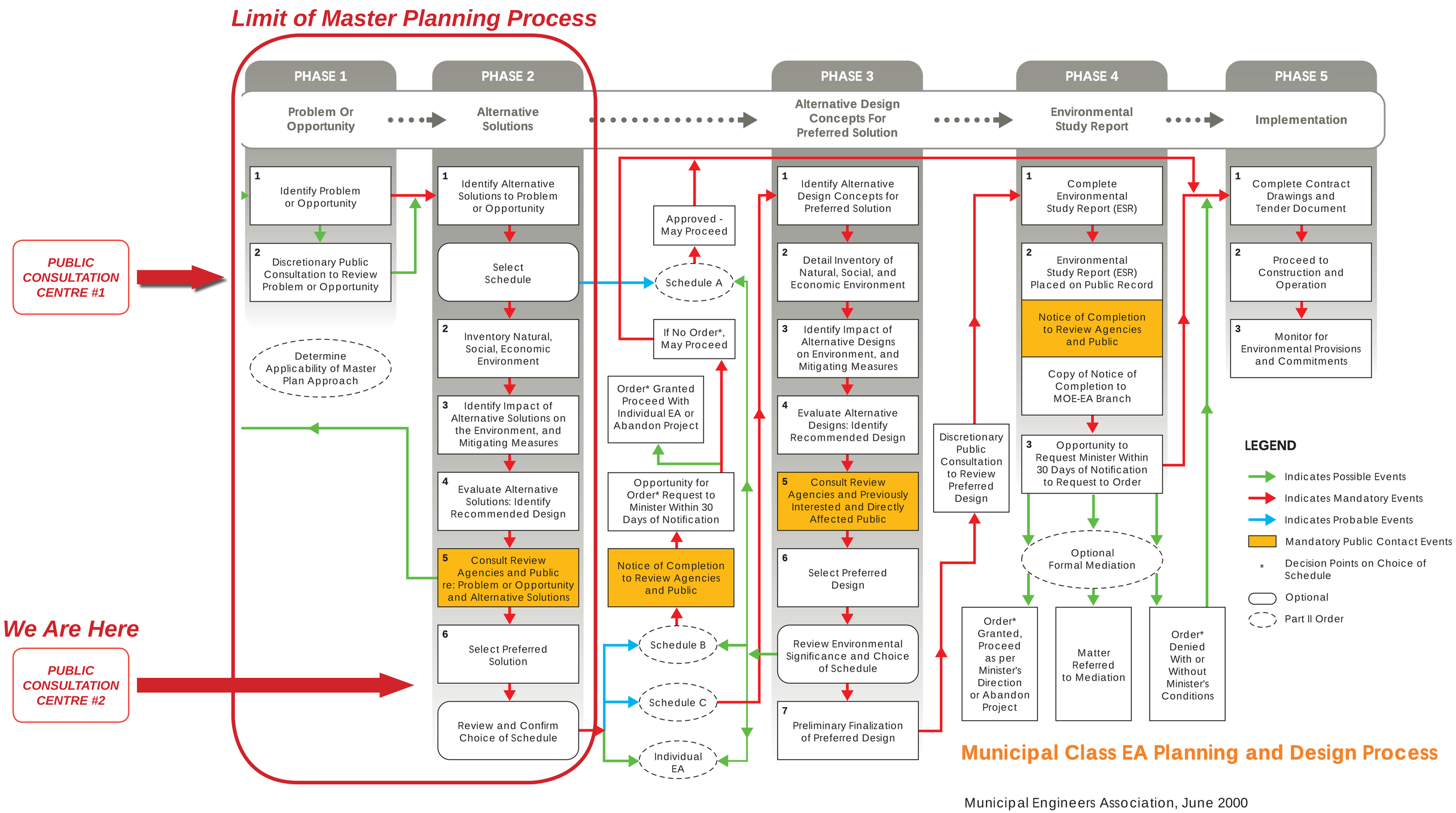
- The City of Kitchener Bridgeport and Falconridge Sewage Pumping Stations (SPS),
- The Township of Woolwich Stockyards Industrial/Commercial Area and King 86 Power Centre Area, and
- Waterloo Region's Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system.

Within the City, there are areas not presently connected to the municipal wastewater collection system which are serviced by septic systems or privately owned infrastructure.

THE CITY OF Waterloo

Stantec

Master Planning Process



This project is being planned and implemented according to the Municipal Class EA process (June 2000, and amended 2007 and 2011).

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Project Tasks

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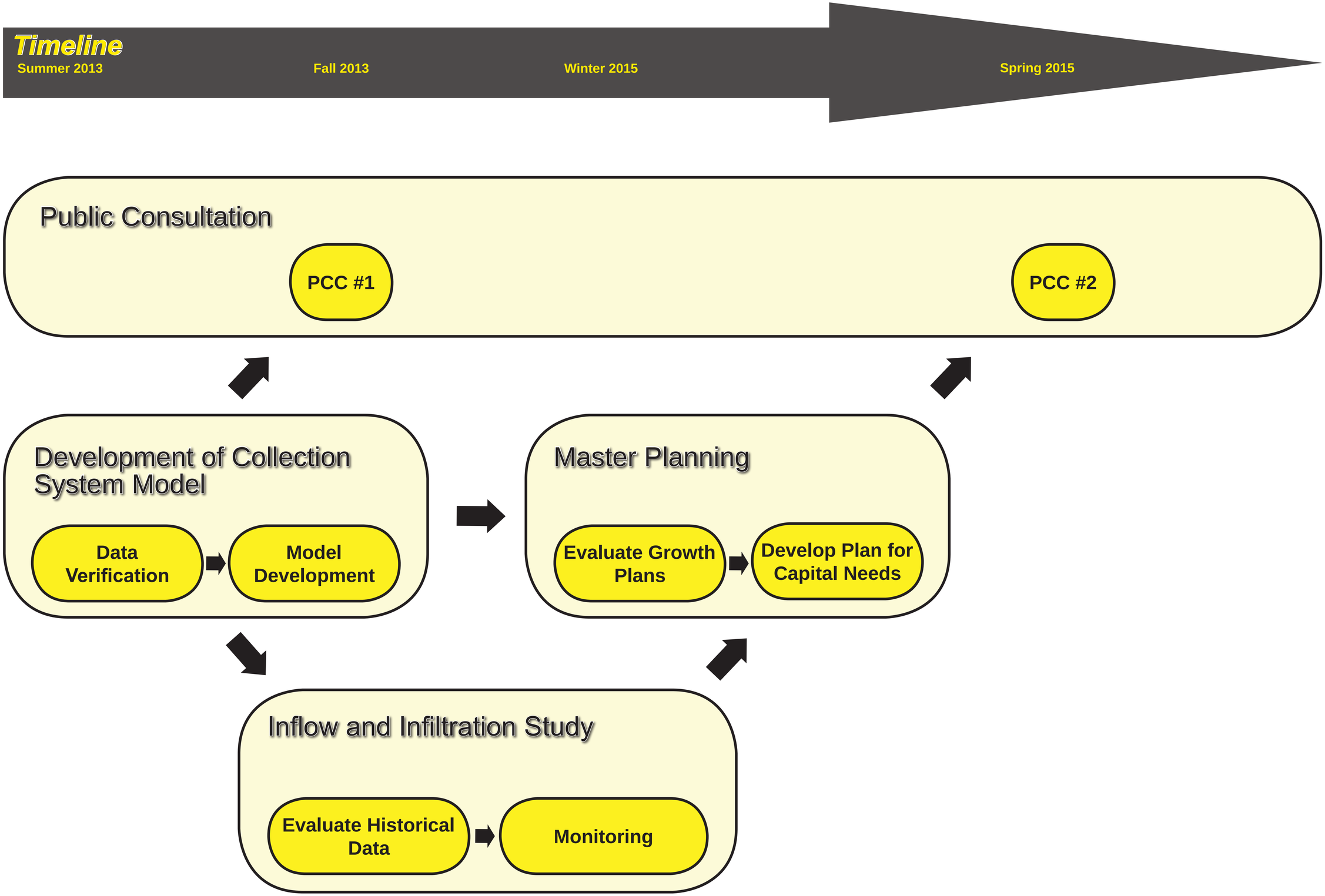
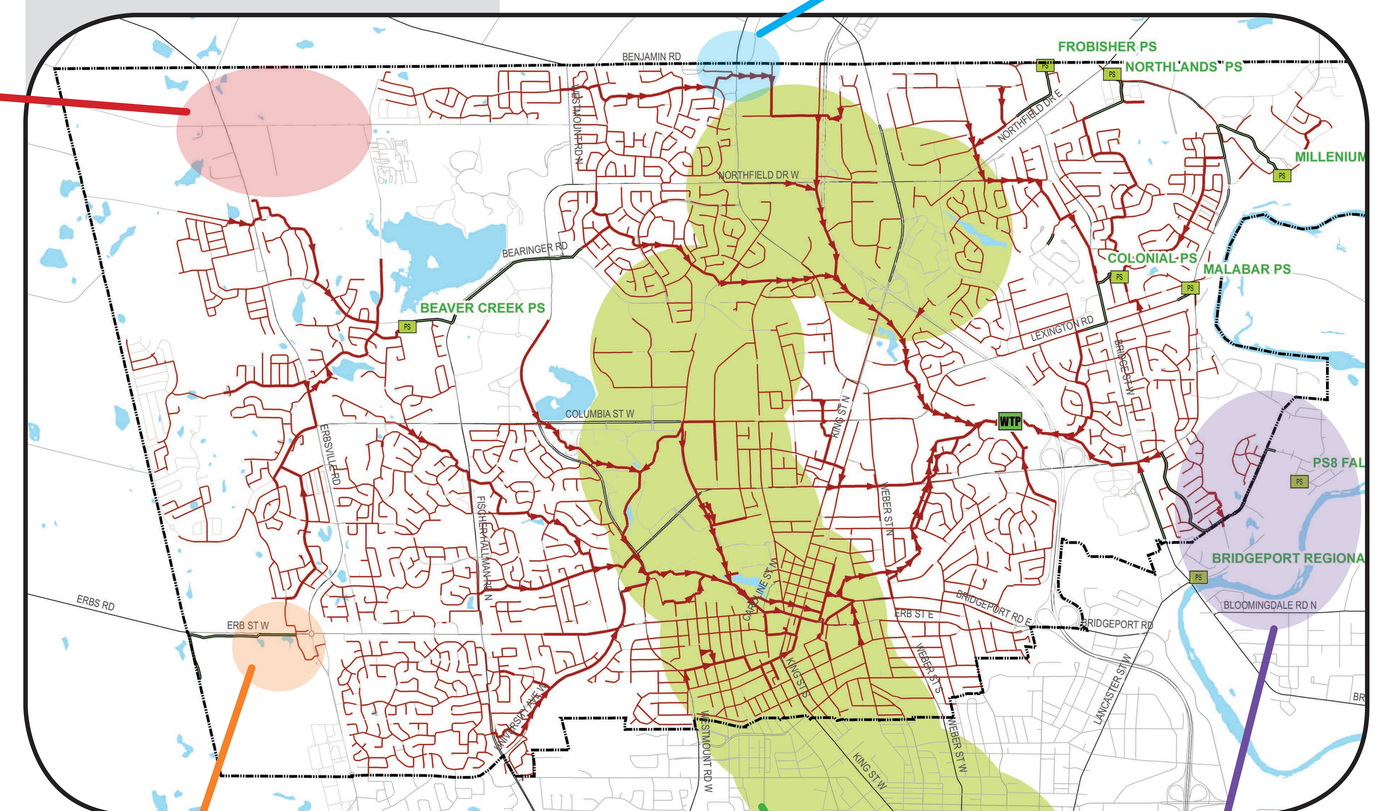


Key Challenges

Development and Growth Patterns



Greenfield Growth

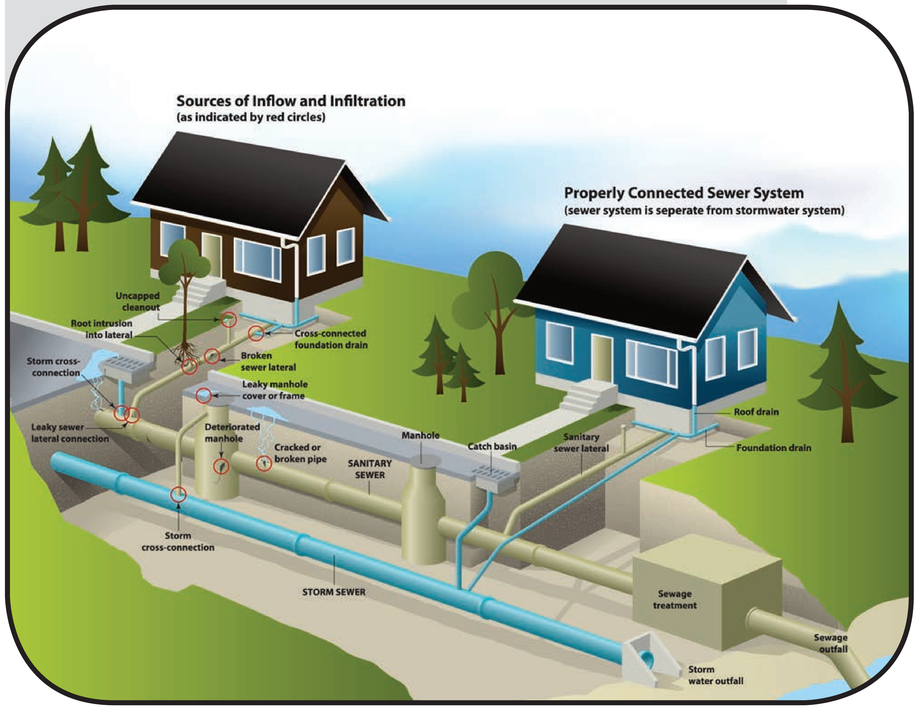
Flows from the Township of Woolwich

Inflows from the Waterloo Landfill Leachate Collection system

Intensification in Core and Along LRT Route

Inflows from the City of Kitchener (Bridgeport SPS and Falconridge SPS)

Inflow and Infiltration Impacts on the System



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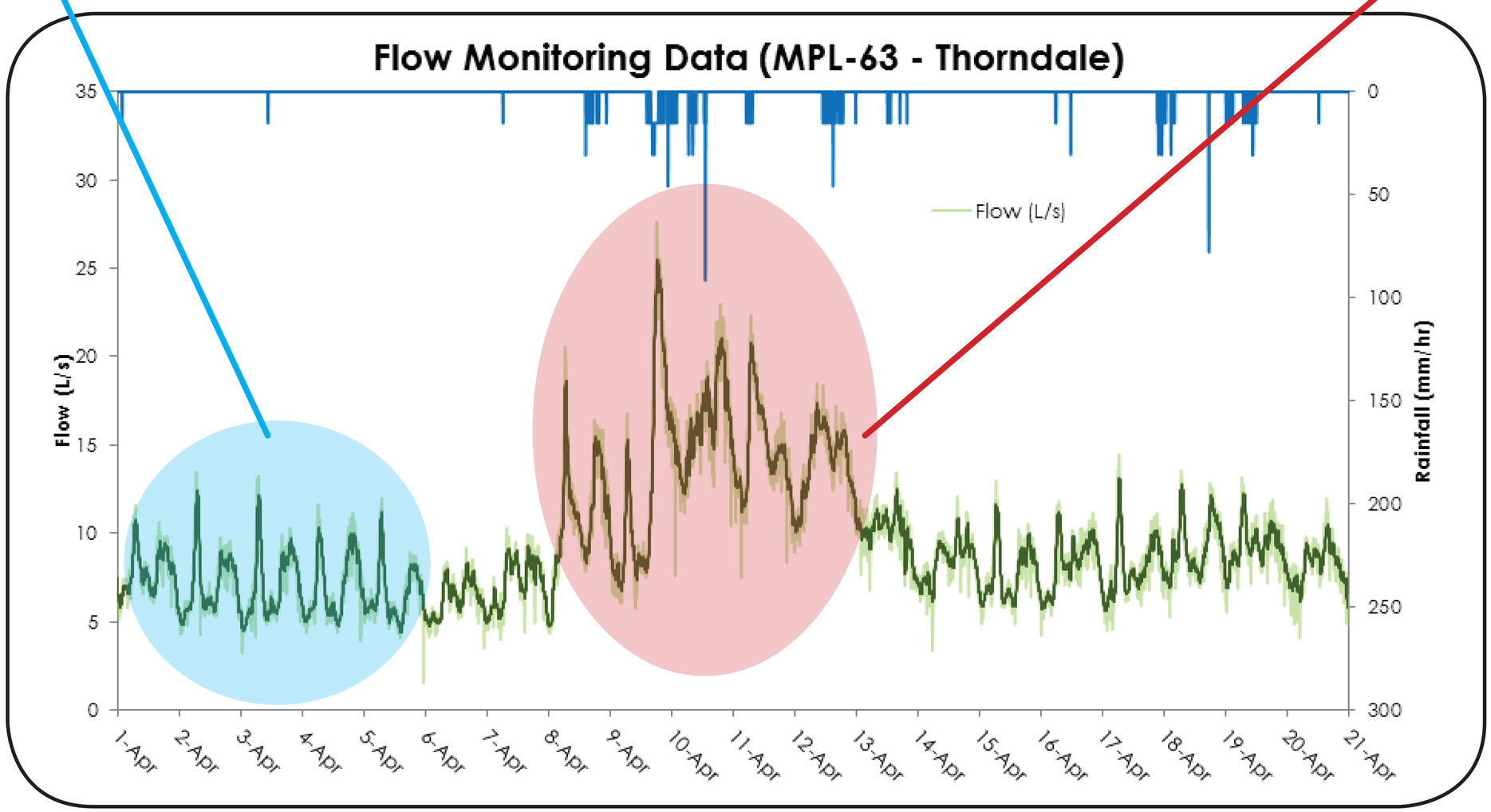
Inflow and Infiltration: What Does It Mean?

Important to Understand Impacts from I/I on the Capacity of the System

Normal Dry Weather Flows

Rain Events that Result in High Flows in the Sewer



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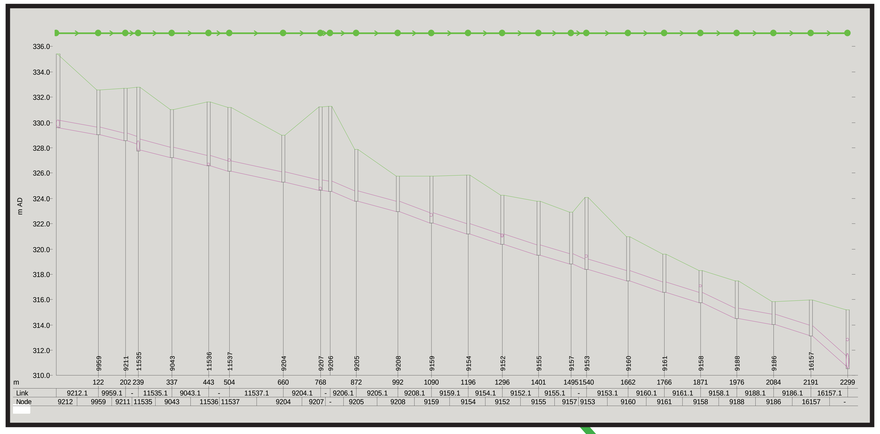
Tasks Completed



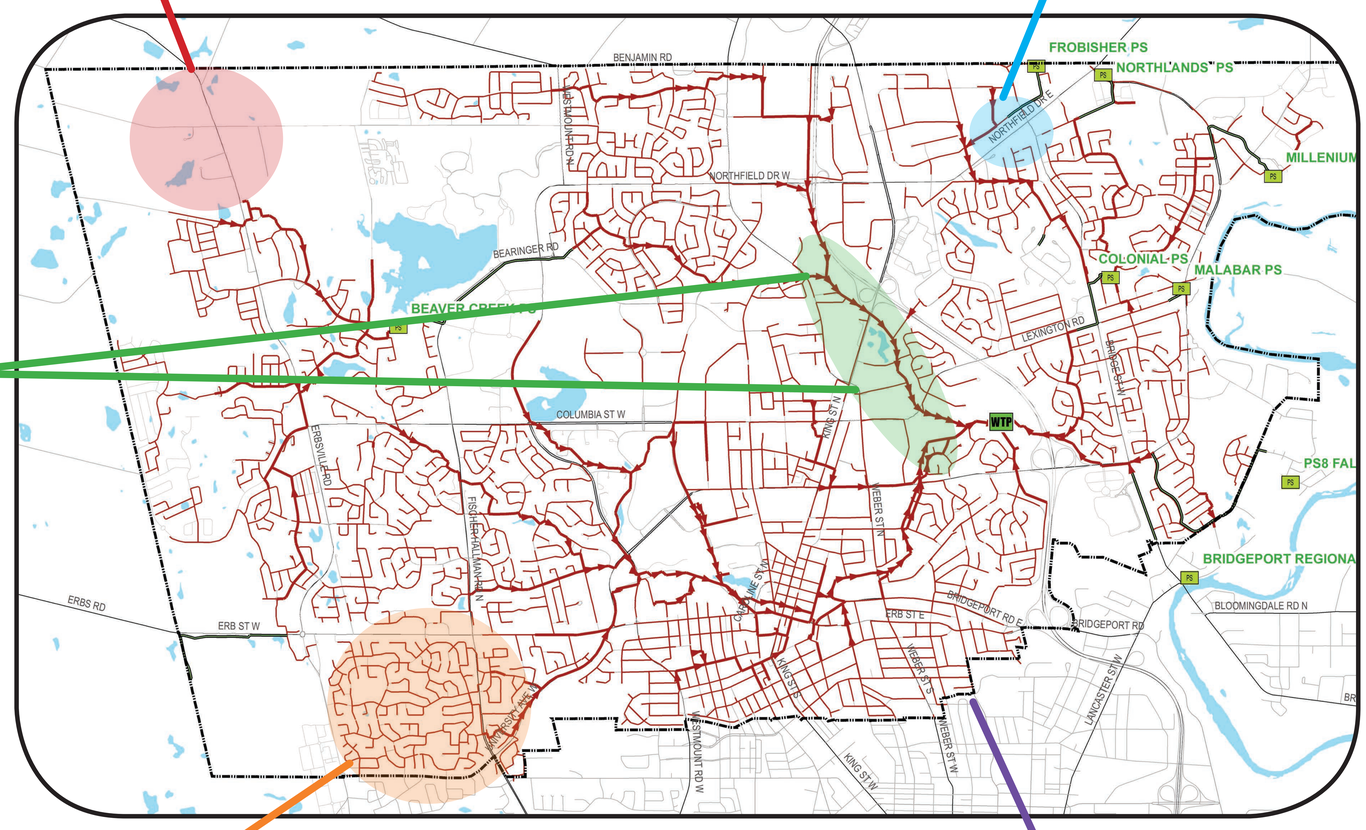
Municipal servicing strategies were developed for properties currently on private services

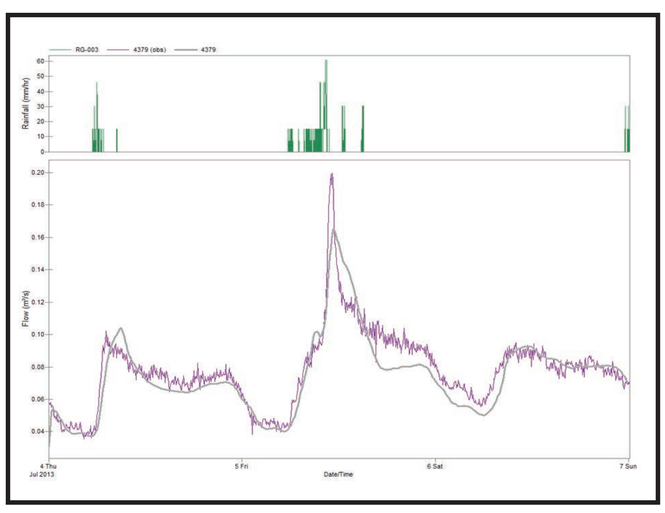
Staging of service connections was coordinated with anticipated development

Assessed capacity constraints

Development and evaluation of servicing alternatives

Validation of physical network





Analyzed flows, including I/I Assessment, and calibrated model

Developed sanitary sewer model in PC SWMM

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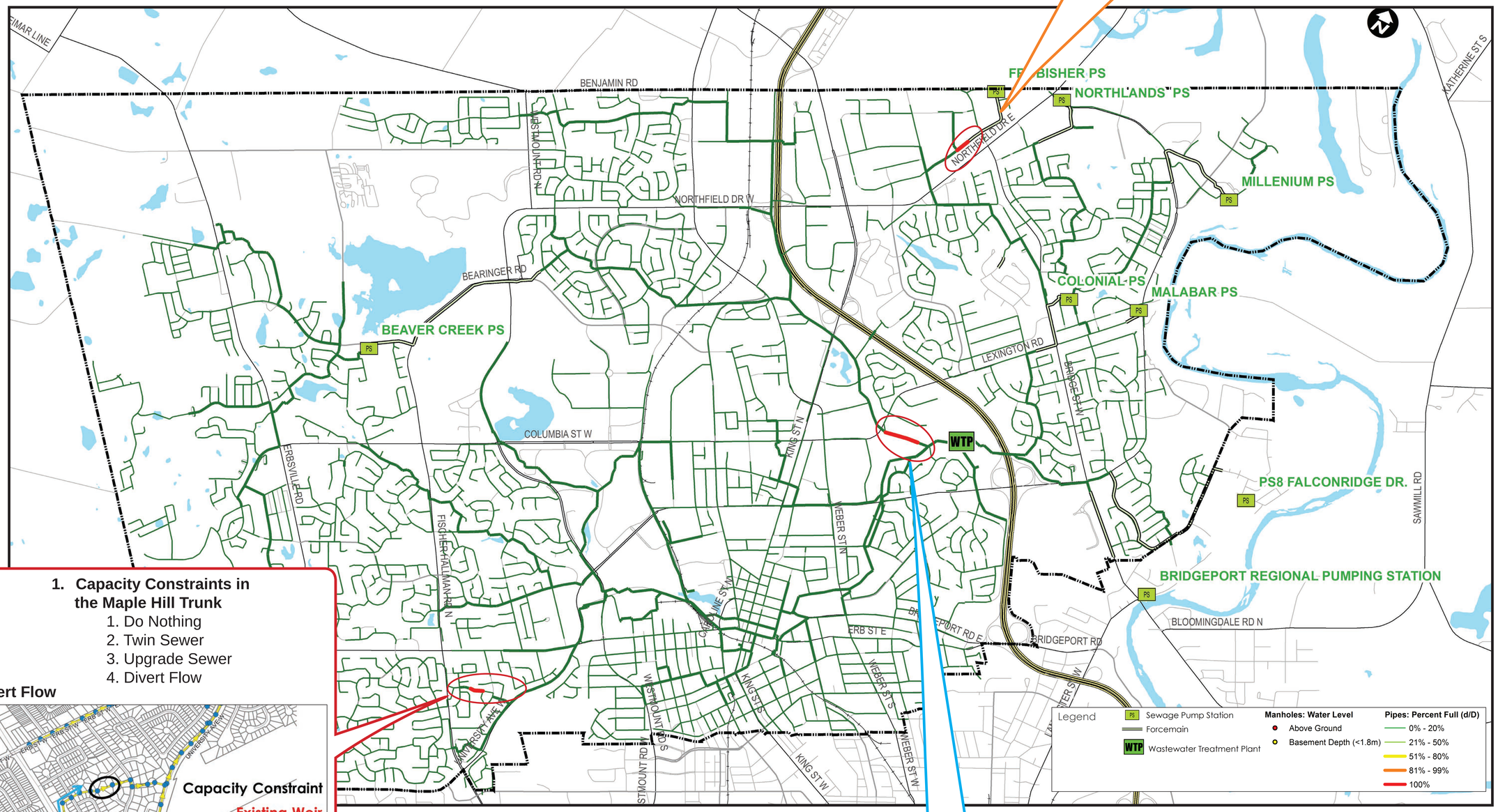
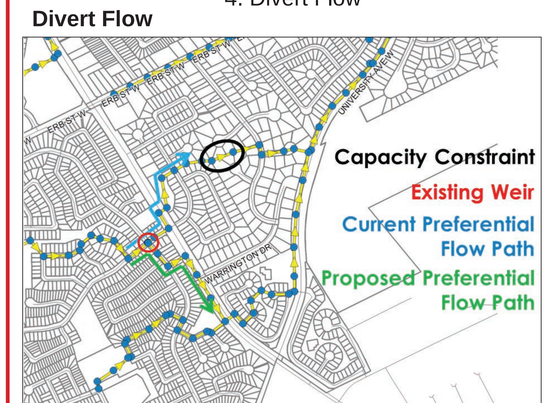
Capacity Constraints

2. Capacity Constraints Downstream of Frobisher SPS
1. Do Nothing
2. Twin Sewer
3. Upgrade Sewer



1. Capacity Constraints in the Maple Hill Trunk
1. Do Nothing
2. Twin Sewer
3. Upgrade Sewer
4. Divert Flow

Divert Flow



2. Capacity Constraints in the Lower Forwell Trunk
1. Do Nothing
2. Twin Sewer
3. Upgrade Sewer

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Detailed Evaluation

Evaluation Criteria:

- Established and used to guide the assessment of servicing alternatives
- Critera selected based on their impacts to the natural, social, and economic environments
- Ranking scale for criteria ranges from good to poor:

Rating	Criteria Ranking	
	Graphical Score	Numerical Score
Good	●	1
	◕	3/4
Neutral	◑	1/2
	◔	1/4
Poor	○	0

1. Maple Hill Trunk Servicing Alternatives

Ranking		Alternative			
		Maple Hill Trunk Capacity			
		1A	1B	1C	1D
Category	Evaluation Criteria	Do Nothing	Twin Sewer Section	Replace Sewer Section	Divert Flow
Technical	Hydraulic Improvements	◔	●	●	◕
	Operations and Maintenance	◑	◑	◑	◑
	System Resiliency	◔	●	●	◕
Ease of Implementation	Constructability	◕	◔	◑	◕
	Regulatory Considerations	◑	◔	◑	◑
Social	Impact for Surrounding Residents	◑	◑	◑	◑
System Suitability	Consistency with Planned Upgrades	◔	◕	◕	◕
	Consistency with Operating Strategies	◔	◕	◕	◑
Environment/ Sustainability	Carbon Footprint	●	◔	◔	●
	Impact on Terrestrial/Aquatic Systems	◔	◕	◕	●
Financial	Capital Cost	●	◔	◔	◕
	Operating and Maintenance Cost	◑	◑	◑	◑
Total Score		**6**	**6 3/4**	**7 1/4**	**8 1/4**

Capital Cost
$35,000

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Detailed Evaluation

2. Downstream Frobisher SPS Servicing Alternatives

Ranking		Alternative		
		Downstream of Frobisher SPS		
		2A	2B	2C
Category	**Evaluation Criteria**	**Do Nothing**	**Twin Sewer**	**Replace Sewer Section**
Technical	Hydraulic Improvements	◔	◕	●
	Operations and Maintenance	◔	◑	◕
	System Resiliency	◔	●	●
Ease of Implementation	Constructability	◕	◔	◑
	Regulatory Considerations	-	-	-
Social	Impact for Surrounding Residents	◔	◔	◔
System Suitability	Consistency with Planned Upgrades	◔	◕	◕
	Consistency with Operating Strategies	◔	◕	◕
Environment/ Sustainability	Carbon Footprint	●	◔	◔
	Impact on Terrestrial/Aquatic Systems	◔	◕	◕
Financial	Capital Cost	●	◔	◔
	Operating and Maintenance Cost	◑	◔	◑
Total Score		**5**	**5 3/4**	**6 3/4**

Capital Cost
$165,000

3. Lower Forwell Trunk Servicing Alternatives

Ranking		Alternative		
		Lower Forwell Trunk		
		3A	3B	3C
Category	**Evaluation Criteria**	**Do Nothing**	**Twin Sewer**	**Replace Sewer Section**
Technical	Hydraulic Improvements	○	◕	●
	Operations and Maintenance	◔	◑	◕
	System Resiliency	○	●	●
Ease of Implementation	Constructability	●	◔	◔
	Regulatory Considerations	●	◔	◔
Social	Impact for Surrounding Residents	◕	◑	◑
System Suitability	Consistency with Planned Upgrades	○	◔	◔
	Consistency with Operating Strategies	◑	◑	◑
Environment/ Sustainability	Carbon Footprint	◕	◔	◔
	Impact on Terrestrial/Aquatic Systems	●	◑	◑
Financial	Capital Cost	●	◔	◔
	Operating and Maintenance Cost	●	◔	◑
Total Score		**7 1/4**	**5 1/4**	**6**

Capital Cost
No Cost

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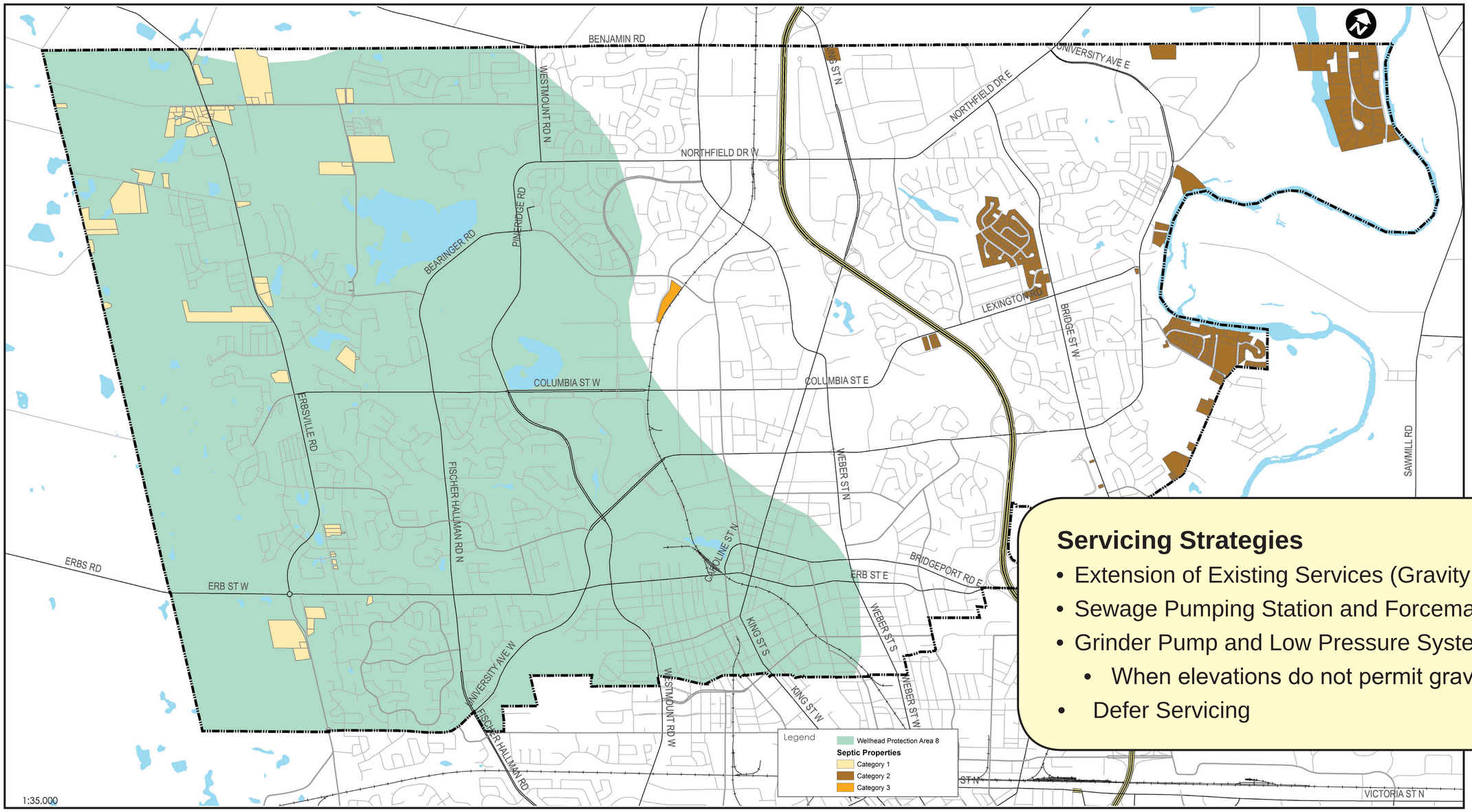
Existing Properties on Private Servicing

Three (3) categories of private servicing based on land use type:

1. Within the Wellhead Protection Sensitivity Area 8 → Land-uses: agricultural, recreational/commercial, Institutional, and residential
2. Outside of the wellhead protection areas → Land-uses: agricultural, recreational/ commercial, institutional, and residential
3. Industrial/Commercial properties → Waste generation for these types of properties can range dramatically in quantity and quality from site to site



Servicing Strategies

- Extension of Existing Services (Gravity Sewer)
- Sewage Pumping Station and Forcemain
- Grinder Pump and Low Pressure System
  - When elevations do not permit gravity flow
- Defer Servicing

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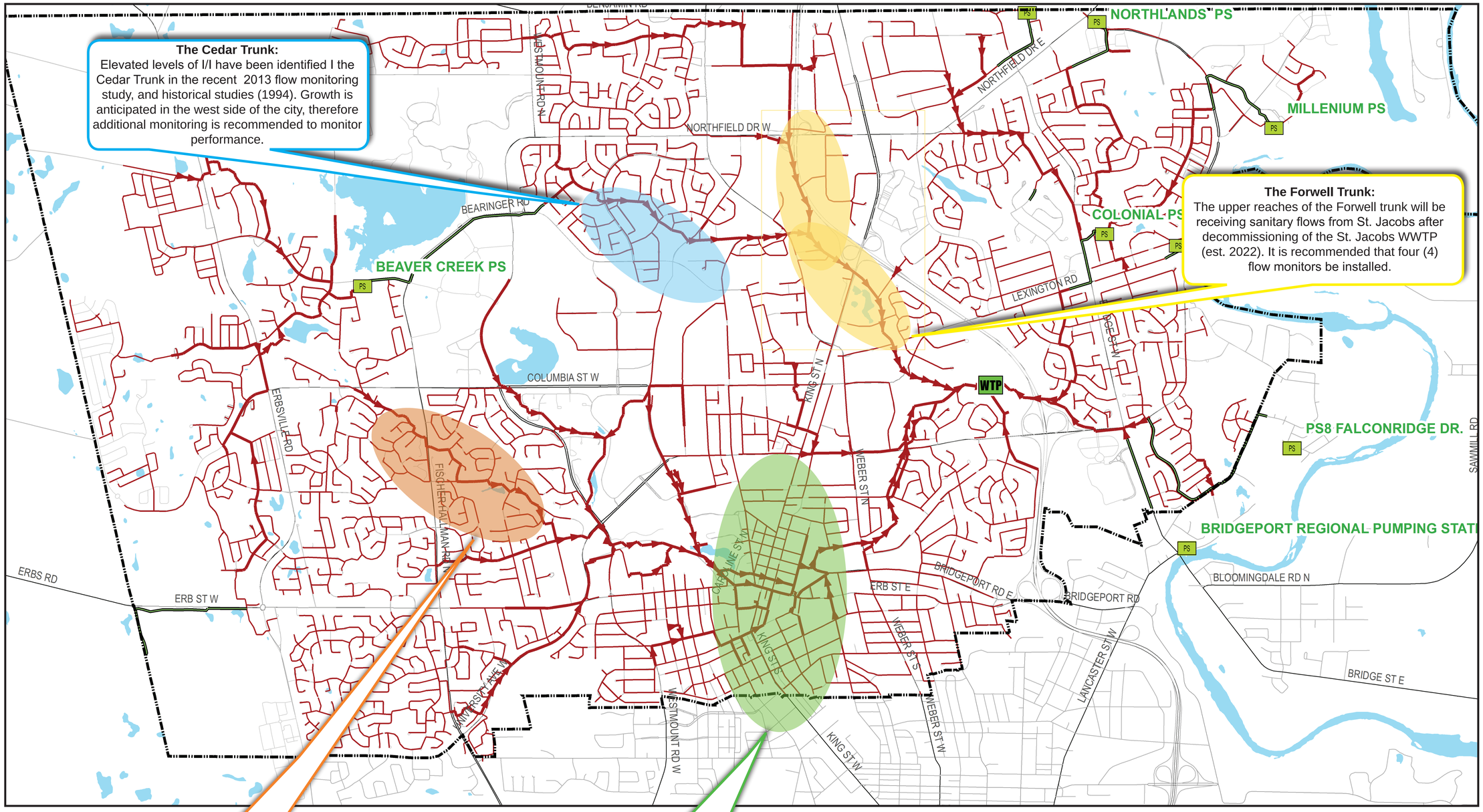
Inflow and Infiltration (I/I) Reduction



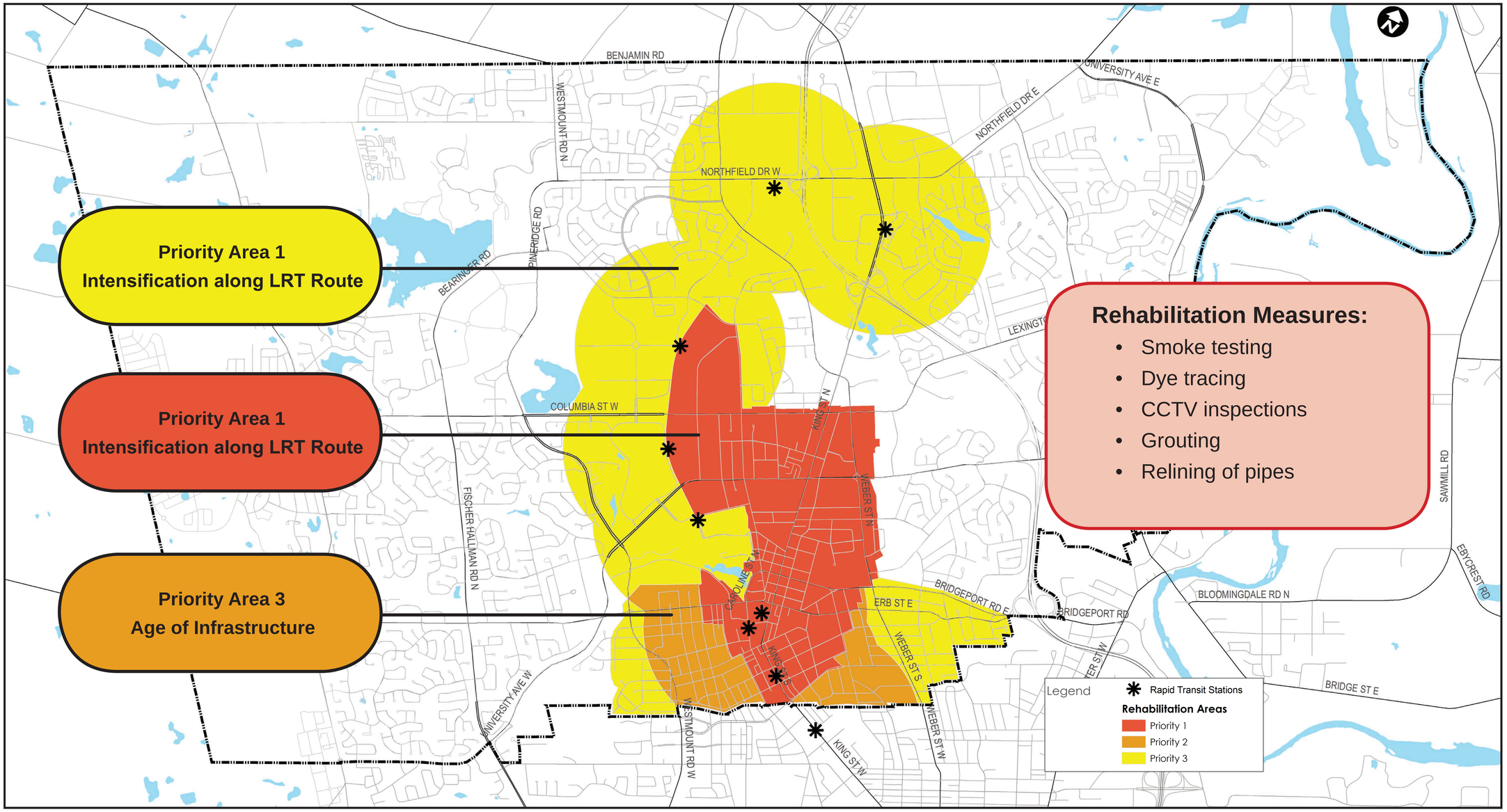
The Cedar Trunk:
Elevated levels of I/I have been identified I the Cedar Trunk in the recent 2013 flow monitoring study, and historical studies (1994). Growth is anticipated in the west side of the city, therefore additional monitoring is recommended to monitor performance.

The Forwell Trunk:
The upper reaches of the Forwell trunk will be receiving sanitary flows from St. Jacobs after decommissioning of the St. Jacobs WWTP (est. 2022). It is recommended that four (4) flow monitors be installed.

The Clair Trunk:
Historically, I/I concerns have been identified along the Clair trunk. Continued monitoring is recommended along the Clair Trunk.

Downtown Core:
Multiple monitors are proposed in the Downtown Core to be analyzed for I/I to characterize wet weather responses within the system.

Optimization and Rehabilitation



Implementation and Staging

Preliminary Preferred Alternative/Recommendation	2015 to 2020	2021 to 2025	2026 to 2031
Maple Hill Trunk Capacity	$ 35,000		
Frobisher SPS Downstream – Trunk Capacity		$ 165,000	
Lower Forwell Trunk Capacity			Do Nothing
I/I Program	$ 420,000	$ 288,000	$ 288,000
Optimization and Rehabilitation Program	$ 1,641,000	$ 1,692,000	$ 1,843,000
Priority 1 Area	$ 1,641,000	$ 547,000	
Priority 2 Area		$ 467,000	$ 467,000
Priority 3 Area		$ 678,000	$ 1,376,000
Total Costs per Planning Period	**$ 2,096,000**	**$ 2,145,000**	**$2,131,000**

THE CITY OF Waterloo

PUBLIC CONSULTATION CENTRE #2
CLASS ENVIRONMENTAL ASSESSMENT
CITY-WIDE SANITARY SERVICING MASTER PLAN

Wednesday, April 8, 2015 from 5:00 pm to 7:00 pm
Waterloo Memorial Recreation Complex, Kiwanis, #201
101 Father David Bauer Dr, Waterloo

ATTENDANCE REGISTRATION

NAME	ADDRESS	TELEPHONE NUMBER
Barbara Robinson	Norton Engineering	744 8879
Denise Mcaldie	City of Waterloo	519-886-2310
EMIR CERIC	IBI GROUP	519-585-2255
Kevin Dolishny	Region of Waterloo	519 575-4757 x3862
Arend Lootsma	~~[illegible]~~ IBI Group	519-585-2255
Kate Wills	IBI Group	519-585-2255
glen.stocco@lpic.com GLEN STOCCO	LEXINGTON PARK	519-725-4900

NAME	ADDRESS	TELEPHONE NUMBER

Personal Information requested on this form is collected under the authority of the City of Waterloo and will be used to maintain a public record of comments received during the planning of this project. Questions regarding the collection of this information may be forwarded to the City's Project Manager – Jakub Cyberling (Ph: (519) 886-2310 x 30226 or Email: Jakub.Cyperling@Waterloo.ca).

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HANDOUT SHEET

The City of Waterloo (City) provides sanitary sewage collection for the majority of Waterloo residents and receives flows from the City of Kitchener located Bridgeport and Falconridge Sewage Pumping Stations (SPS), the Township of Woolwich, Waterloo Region Emergency Services Training & Research Complex (WRESTRC) and landfill leachate collection system. The City's current City-wide Sanitary Sewer System Update Master Plan, completed in 2002, identified priority (2002 to 2006) and strategic (2007-2016) projects to operate the sanitary system and accommodate growth up to the 2016 planning horizon. The City is undergoing the City-wide 2014 Sanitary Servicing Master Plan Update to account for updated population and employment growth projections up to a 2031 planning horizon.

As a part of the City-wide 2014 Sanitary Servicing Master Plan, a hydraulic model was developed of the collection system. Input data was validated and the model was calibrated based on observed flow monitoring data. Future loadings were developed based on planning population forecasts, and system capacity was assessed based on model results. Servicing alternatives have been identified to accommodate anticipated population growth including infill/intensification and greenfield development, and for the transfer of private services to municipal servicing. To efficiently and effectively continue operation of the system, best management practices have been identified including Infiltration/Inflow (I/I) monitoring and mitigation approaches, and ongoing system rehabilitation.

For additional information concerning this project, please visit the website at www.waterloo.ca/sanitarymasterplan or contact either of the representatives below:

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